#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



### 

(43) International Publication Date 28 February 2002 (28.02.2002)

#### **PCT**

# (10) International Publication Number WO 02/16649 A2

(51) International Patent Classification<sup>7</sup>:

C12Q 1/68

(21) International Application Number: PCT/US01/26519

(22) International Filing Date: 27 August 2001 (27.08.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/227,948 60/228,854 25 August 2000 (25.08.2000) US 29 August 2000 (29.08.2000) US

\_\_\_\_\_

(71) Applicant: ILLUMINA, INC. [US/US]; Suite 200, 9390 Towne Centre Drive, San Diego, CA 92121 (US).

(72) Inventor: GUNDERSON, Kevin; 1543 Juniper Hill Drive, Encinitas, CA 92024 (US).

(74) Agents: BREZNER, David, J. et al.; Flehr, Hohbach, Test, Albritton & Herbert LLP, Suite 3400, 4 Embarcadero Center, San Francisco, CA 94111-4187 (US). (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



#### PROBES AND DECODER OLIGONUCLEOTIDES

This application claims the benefit of U.S.S.N.s 60/227,948 filed August 25, 2000 and 60/228,854, filed August 29, 2001, both of which are expressly incorporated herein by reference.

5

10

15

#### FIELD OF THE INVENTION

The present invention is directed to methods and compositions for the use of adapter sequences on arrays in a variety of nucleic acid reactions, including synthesis reactions, amplification reactions, and genotyping reactions.

#### BACKGROUND OF THE INVENTION

The detection of specific nucleic acids is an important tool for diagnostic medicine and molecular biology research. Gene probe assays currently play roles in identifying infectious organisms such as bacteria and viruses, in probing the expression of normal and mutant genes and identifying mutant genes such as oncogenes, in typing tissue for compatibility preceding tissue transplantation, in matching tissue or blood samples for forensic medicine, and for exploring homology among genes from different species.

20

Ideally, a gene probe assay should be sensitive, specific and easily automatable (for a review, see Nickerson, Current Opinion in Biotechnology 4:48-51 (1993)). The requirement for sensitivity (i.e. low detection limits) has been greatly alleviated by the development of the polymerase chain reaction (PCR) and other amplification technologies which allow researchers to amplify exponentially a specific nucleic acid sequence before analysis (for a review, see Abramson et al., Current Opinion in Biotechnology, 4:41-47 (1993)).

30

25

Specificity, in contrast, remains a problem in many currently available gene probe assays. The extent of molecular complementarity between probe and target defines the specificity of the interaction. Variations in the concentrations of probes, of targets and of salts in the hybridization medium, in the reaction temperature, and in the length of the probe may alter or influence the specificity of the

probe/target interaction.

5

10

15

20

25

30

35

It may be possible under some circumstances to distinguish targets with perfect complementarity from targets with mismatches, although this is generally very difficult using traditional technology, since small variations in the reaction conditions will alter the hybridization. New experimental techniques for mismatch detection with standard probes include DNA ligation assays where single point mismatches prevent ligation and probe digestion assays in which mismatches create sites for probe cleavage.

Recent focus has been on the analysis of the relationship between genetic variation and phenotype by making use of polymorphic DNA markers. Previous work utilized short tandem repeats (STRs) as polymorphic positional markers; however, recent focus is on the use of single nucleotide polymorphisms (SNPs), which occur at an average frequency of more than 1 per kilobase in human genomic DNA. Some SNPs, particularly those in and around coding sequences, are likely to be the direct cause of therapeutically relevant phenotypic variants and/or disease predisposition. There are a number of well known polymorphisms that cause clinically important phenotypes; for example, the apoE2/3/4 variants are associated with different relative risk of Alzheimer's and other diseases (see Cordor et al., Science 261(1993). Multiplex PCR amplification of SNP loci with subsequent hybridization to oligonucleotide arrays has been shown to be an accurate and reliable method of simultaneously genotyping at least hundreds of SNPs; see Wang et al., Science, 280:1077 (1998); see also Schafer et al., Nature Biotechnology 16:33-39 (1998). The compositions of the present invention may easily be substituted for the arrays of the prior art.

There are a variety of particular techniques that are used to detect sequence, including mutations and SNPs. These include, but are not limited to, ligation based assays, cleavage based assays (mismatch and invasive cleavage such as Invader™), single base extension methods (see WO 92/15712, EP 0 371 437 B1, EP 0317 074 B1; Pastinen et al., Genome Res. 7:606-614 (1997); Syvänen, Clinica Chimica Acta 226:225-236 (1994); and WO 91/13075), and competitive probe analysis (e.g. competitive sequencing by hybridization; see below).

Oligonucleotide ligation amplification ("OLA", which is referred as the ligation chain reaction (LCR) when two-stranded reactions or nested reactions are done) involves the ligation of two smaller probes into a single long probe, using the target sequence as the template. See generally U.S. Patent Nos. 5,185,243, 5,679,524 and 5,573,907; EP 0 320 308 B1; EP 0 336 731 B1; EP 0 439 182 B1; WO 90/01069; WO 89/12696; WO 97/31256 and WO 89/09835, all of which are incorporated by reference.

Invasive cleavage technology is based on structure-specific nucleases that cleave nucleic acids in a site-specific manner. Two probes are used: an "invader" probe and a "signalling" probe, that adjacently hybridize to a target sequence with a non-complementary overlap. The enzyme cleaves at the overlap due to its recognition of the "tail", and releas s the "tail" with a label. This can then be

detected. The Invader<sup>™</sup> technology is described in U.S. Patent Nos. 5,846,717; 5,614,402; 5,719,028; 5,541,311; and 5,843,669, all of which are hereby incorporated by reference.

5

10

15

20

25

30

35

An additional technique utilizes sequencing by hybridization. For example, sequencing by hybridization has been described (Drmanac et al., Genomics 4:114 (1989); Koster et al., Nature Biotechnology 14:1123 (1996); U.S. Patent Nos. 5,525,464; 5,202,231 and 5,695,940, among others, all of which are hereby expressly incorporated by reference in their entirety).

Sensitivity, i.e. detection limits, remain a significant obstacle in nucleic acid detection systems, and a variety of techniques have been developed to address this issue. Briefly, these techniques can be classified as either target amplification or signal amplification. Target amplification involves the amplification (i.e. replication) of the target sequence to be detected, resulting in a significant increase in the number of target molecules. Target amplification strategies include the polymerase chain reaction (PCR), strand displacement amplification (SDA), and nucleic acid sequence based amplification (NASBA).

Alternatively, rather than amplify the target, alternate techniques use the target as a template to replicate a signalling probe, allowing a small number of target molecules to result in a large number of signalling probes, that then can be detected. Signal amplification strategies include the ligase chain reaction (LCR), cycling probe technology (CPT), invasive cleavage techniques such as Invader technology, Q-Beta replicase (QβR) technology, and the use of "amplification probes" such as "branched DNA" that result in multiple label probes binding to a single target sequence.

The polymerase chain reaction (PCR) is widely used and described, and involves the use of primer extension combined with thermal cycling to amplify a target sequence; see U.S. Patent Nos. 4,683,195 and 4,683,202, and PCR Essential Data, J. W. Wiley & sons, Ed. C.R. Newton, 1995, all of which are incorporated by reference. In addition, there are a number of variations of PCR which also find use in the invention, including "quantitative competitive PCR" or "QC-PCR", "arbitrarily primed PCR" or "AP-PCR", "immuno-PCR", "Alu-PCR", "PCR single strand conformational polymorphism" or "PCR-SSCP", allelic PCR (see Newton et al. Nucl. Acid Res. 17:2503 91989); "reverse transcriptase PCR" or "RT-PCR", "biotin capture PCR", "vectorette PCR". "panhandle PCR", and "PCR select cDNA subtraction", among others.

Strand displacement amplification (SDA) is generally described in Walker et al., in Molecular Methods for Virus Detection, Academic Press, Inc., 1995, and U.S. Patent Nos. 5,455,166 and 5,130,238, all of which are hereby incorporated by reference.

Nucleic acid sequence based amplification (NASBA) is generally described in U.S. Patent No. 5,409,818 and "Profiting from Gene-based Diagnostics", CTB International Publishing Inc., N.J., 1996,

both of which are incorporated by reference.

5

10

15

20

25

30

35

Cycling probe technology (CPT) is a nucleic acid detection system based on signal or probe amplification rather than target amplification, such as is done in polymerase chain reactions (PCR). Cycling probe technology relies on a molar excess of labeled probe which contains a scissile linkage of RNA. Upon hybridization of the probe to the target, the resulting hybrid contains a portion of RNA:DNA. This area of RNA:DNA duplex is recognized by RNAseH and the RNA is excised, resulting in cleavage of the probe. The probe now consists of two smaller sequences which may be released, thus leaving the target intact for repeated rounds of the reaction. The unreacted probe is removed and the label is then detected. CPT is generally described in U.S. Patent Nos. 5,011,769, 5,403,711, 5,660,988, and 4,876,187, and PCT published applications WO 95/05480, WO 95/1416, and WO 95/00667, all of which are specifically incorporated herein by reference.

The oligonucleotide ligation assay (OLA) involve the ligation of at least two smaller probes into a single long probe, using the target sequence as the template for the ligase. See generally U.S. Patent Nos. 5,185,243, 5,679,524 and 5,573,907; EP 0 320 308 B1; EP 0 336 731 B1; EP 0 439 182 B1; WO 90/01069; WO 89/12696; and WO 89/09835, all of which are incorporated by reference.

Invader<sup>™</sup> technology is based on structure-specific polymerases that cleave nucleic acids in a site-specific manner. Two probes are used: an "invader" probe and a "signalling" probe, that adjacently hybridize to a target sequence with overlap. For mismatch discrimination, the invader technology relies on complementarity at the overlap position where cleavage occurs. The enzyme cleaves at the overlap, and releases the "tail" which may or may not be labeled. This can then be detected. The Invader<sup>™</sup> technology is described in U.S. Patent Nos. 5,846,717; 5,614,402; 5,719,028; 5,541,311; and 5,843,669, all of which are hereby incorporated by reference.

"Branched DNA" signal amplification relies on the synthesis of branched nucleic acids, containing a multiplicity of nucleic acid "arms" that function to increase the amount of label that can be put onto one probe. This technology is generally described in U.S. Patent Nos. 5,681,702, 5,597,909, 5,545,730, 5,594,117, 5,591,584, 5,571,670, 5,580,731, 5,571,670, 5,591,584, 5,624,802, 5,635,352, 5,594,118, 5,359,100, 5,124,246 and 5,681,697, all of which are hereby incorporated by reference.

Similarily, dendrimers of nucleic acids serve to vastly increase the amount of label that can be added to a single molecule, using a similar idea but different compositions. This technology is as described in U.S. Patent No. 5,175,270 and Nilsen et al., J. Theor. Biol. 187:273 (1997), both of which are incorporated herein by reference.

U.S.S.N.s 09/189,543; 08/944,850; 09/033,462; 09/287,573; 09/151,877; 09/187,289 and 09/256,943; and PCT applications US98/09163 and US99/14387; US98/21193; US99/04473 and US98/05025, all

of which are expressly incorporated by reference, describe novel compositions utilizing substrates with microsphere arrays, which allow for novel detection methods of nucleic acid hybridization.

The use of adapter-type sequences that allow the use of universal arrays has been described in limited contexts; see for example Chee et al., Nucl. Acid Res. 19:3301 (1991); Shoemaker et al., Nature Genetics 14:450 (1996); U.S. Patent Nos. 5,494,810, 5,830,711, 6,027,889, 6,054,564, and 6,268,148; and EP 0 799 897 A1; WO 97/31256, all of which are expressly incorporated by reference.

Accordingly, it is an object of the present invention to provide methods for detecting nucleic acid reactions, and other target analytes, on arrays using adapter sequences.

#### SUMMARY OF THE INVENTION

In accordance with the above objects, the invention also provides a method of detecting a target nucleic acid. The method comprises contacting the target nucleic acid with an adapter sequence such that the target nucleic acid is joined to the adapter sequence to form a modified target nucleic acid. In addition, the method comprises contacting the modified target nucleic acid with an array comprising a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified target nucleic acid form a complex, wherein the microspheres are distributed on the surface, and detecting the presence fo the target nucleic acid. In addition the method comprises adding at least one decoding binding ligand to the array such that the identity of the target nucleic acid is determined. Preferably the adapter nucleic acids include a sequence as set forth in Table Table II, Table III or Table IV.

25

30

5

10

15

20

In addition the invention provides a method of making an array. The method comprises forming a surface comprising individual sites on a substrate, distributing microspheres on the surface such that the individual sites contain microspheres, wherein the microspheres comprise at least a first and a second subpopulation each comprising a capture probe, wherein the capture probe is complementary to an adapter sequence, the adapter sequence joined to a target nucleic acid, and an identifier binding ligand that will bind at least one decoder binding ligand such that the identification of the target nucleic acid is elucidated. Preferably the adapter nucleic acids include a sequence as set forth in Table I, Table III or Table IV.

35

In addition the invention provides a kit comprising at least one nucleic acid selected from the group consisting of the sequences set forth it Table I, Table III or Table IV. In one embodiment the invention provides a kit that includes a nucleic acid that includes a sequence as set forth in Table I, Table III or Table IV and at least a first universal priming sequence.

In addition the invention includes an array composition comprising a first population of microspheres comprising first and second subpopulations, wherein the first subpopulation includes a first nucleic acid selected from the sequences set forth in Table I, Table II, Table III or Table IV and the second subpopulation includes a second sequence selected from the sequences set forth in Table II, Table III or Table IV.

In addition the invention includes an array composition comprising a first sequence at a known location on a substrate, wherein the first sequence is selected from the sequences set forth in Table I, Table II, Table III or Table IV.

10

15

20

5

In addition the invention includes a method for making an array. The method includes distributing a population of microspheres on an substrate, wherein the population includes first and second subpopulations, wherein the first subpopulation includes a first sequence selected from the group consisting of the sequences set forth in Table I, Table II, Table III or Table IV and the sequences set forth in Table I. Table II. Table III or Table IV.

In addition the method includes a method of immobilizing a target nucleic acid. The method includes hybridizing a first adapter probe with a first target nucleic acid, wherein the first adapter probe comprises a first domain that is complementary to the first target nucleic acid and a second domain, comprising a first sequence selected from the sequences set forth in Table I, Table II, Table III or Table IV to form a first hybridization complex. In addition the method includes contacting the first hybridization complex with a first capture probe immobilized on a first substrate, wherein the first capture probe is substantially complementary to the second domain of the first adapter probe.

25

30

In addition the invention includes a method of decoding an array composition comprising providing an array composition that includes a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first and a second subpopulation, wherein each subpopulation comprises a bioactive agent. The microspheres are distributed on the surface. The method further includes adding a plurality of decoding binding ligands to the array composition to identify the location of at least a plurality of the bioactive agents wherein at least a first decoder binding ligand comprises a sequence selected from the group consisting of the sequences of Table I, Table II, Table III or Table IV.

35

A method of detecting a target nucleic acid sequence, said method comprising attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein the first adapter nucleic acid includes a sequence selected from the sequences set forth in Table I, Table III or Table IV. The method further includes contacting the modified first target nucleic acid sequence with an array comprising a substrate with a patterned surface

comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified first target nucleic acid sequence form a hybridization complex; wherein the microspheres are distributed on the surface and detecting the presence of the modified first target nucleic acid sequence.

5

#### **DETAILED DESCRIPTION OF THE FIGURES**

Figure 1 depicts a method of selecting oligonucleotide sequences.

10

Figure 2 depicts a scheme for selection of probes and decoder oligonucleotides.

Figure 3 demonstrates hybridization intensity comparison of immobilized beads using non-purified oligonucleotides with HPLC purified oligonucleotides.

15

Figure 4 depicts different oligonucleotide sequences immobilized onto silica beads at various salt concentration. Average intensity indicates hybridization intensity of beads in a BeadArray.

Figure 5 depicts immobilization of oligonucleotides in increasing salt concentrations.

20

25

#### DETAILED DESCRIPTION OF THE INVENTION

This invention is directed to the use of adapter sequences, and optionally capture extender probes, that allow the use of "universal" arrays. That is, a "universal" array is an array with a set of capture probes that will hybridize to adapter sequences, for use in any number of different reactions, including the binding of nucleic acid reactions and other target analytes comprising a nucleic acid adapter sequence that can hybridize to the array. In this way, a manufacturer of arrays can make one type of array that may be used in a variety of applications, thus reducing the manufacturing costs associated with the array. In addition, in the case of bead arrays, the decoding steps as outlined below can be simplified, as one set of decoding probes can be made.

30

In general, the use of adapter sequences can be described as follows for nucleic acid reactions. An adapter sequence can be added exogenously to a target nucleic acid sequence using any number of different techniques, including, but not limited to, amplification reactions as described in U.S.S.N. 09/425,633, filed October 22, 1999; 09/513,362, filed February 25, 2000; 09/517,945, filed March 3, 2000; 09/535,854, filed March 27, 2000; 09/553,993, filed April 20, 2000; 09/556,463, filed April 21, 2000; 60/135,051, filed May 20, 1999; 60/135,053, filed May 20, 1999; 60/135,123, filed May 20, 1999; 60/130,089, filed April 20, 1999; 60/160,917, filed October 22, 1999; 60/160,927, filed October 22,

35

1999; 60/161,148, filed October 22, 1999; and 60/244,119, filed October 26, 2000 all of which are hereby incorporated by reference. In addition, the adapter can be added to an extension probe. The adapter's quence can then be used to target to its complementary capture probe on the surface.

Alternatively, the adapter sequences can be added to other target analytes, to generate unique and reproducible arrays of target analytes in a similar manner. By adding the nucleic acid to the target analyte (for example to an antibody in an immunoassay), the target analytes may then be arrayed.

5

10

15

20

25

30

35

Accordingly, the present invention provides methods for the detection of target analytes, particularly nucleic acid target sequences, in a sample. As will be appreciated by those in the art, the sample solution may comprise any number of things, including, but not limited to, bodily fluids (including, but not limited to, blood, urine, serum, lymph, saliva, anal and vaginal secretions, perspiration and semen, of virtually any organism, with mammalian samples being preferred and human samples being particularly preferred); environmental samples (including, but not limited to, air, agricultural, water and soil samples); biological warfare agent samples; research samples; purified samples, such as purified genomic DNA, RNA, proteins, etc.; raw samples (bacteria, virus, genomic DNA, etc.; As will be appreciated by those in the art, virtually any experimental manipulation may have been done on the sample.

The present invention provides methods for the detection of target analytes, particularly nucleic acid target sequences, in a sample. By "target analyte" or "analyte" or grammatical equivalents herein is meant any molecule, compound or particle to be detected. As outlined below, target analytes preferably bind to binding ligands, as is more fully described below. As will be appreciated by those in the art, a large number of analytes may be detected using the present methods; basically, any target analyte for which a binding ligand, described below, may be made may be detected using the methods of the invention.

Suitable analytes include organic and inorganic molecules, including biomolecules. In a preferred embodiment, the analyte may be an environmental pollutant (including pesticides, insecticides, toxins, etc.); a chemical (including solvents, polymers, organic materials, etc.); therapeutic molecules (including therapeutic and abused drugs, antibiotics, etc.); biomolecules (including hormones, cytokines, proteins, lipids, carbohydrates, cellular membrane antigens and receptors (neural, hormonal, nutrient, and cell surface receptors) or their ligands, etc); whole cells (including procaryotic (such as pathogenic bacteria) and eukaryotic cells, including mammalian tumor cells); viruses (including retroviruses, herpesviruses, adenoviruses, lentiviruses, etc.); and spores; etc. Particularly preferred analytes are environmental pollutants; nucleic acids; proteins (including enzymes, antibodies, antigens, growth factors, cytokines, etc.); therapeutic and abused drugs; cells; and viruses.

In a preferred embodiment, the target analyte is a protein. As will be appreciated by those in the art,

there are a large number of possible proteinaceous target analytes that may b detected using the present invention. By "proteins" or grammatical equivalents herein is meant proteins, oligopeptides and p ptides, derivatives and analogs, including proteins containing non-naturally occurring amino acids and amino acid analogs, and peptidomimetic structures. The side chains may be in either the (R) or the (S) configuration. In a preferred embodiment, the amino acids are in the (S) or L-configuration. As discussed below, when the protein is used as a binding ligand, it may be desirable to utilize protein analogs to retard degradation by sample contaminants.

5

10

15

20

25

30

35

Suitable protein target analytes include, but are not limited to, (1) immunoglobulins, particularly IgEs, lgGs and IgMs, and particularly therapeutically or diagnostically relevant antibodies, including but not limited to, for example, antibodies to human albumin, apolipoproteins (including apolipoprotein E), human chorionic gonadotropin, cortisol,  $\alpha$ -fetoprotein, thyroxin, thyroid stimulating hormone (TSH), antithrombin, antibodies to pharmaceuticals (including antieptileptic drugs (phenytoin, primidone, carbariezepin, ethosuximide, valproic acid, and phenobarbitol), cardioactive drugs (digoxin, lidocaine, procainamide, and disopyramide), bronchodilators (theophylline), antibiotics (chloramphenicol, sulfonamides), antidepressants, immunosuppresants, abused drugs (amphetamine, methamphetamine, cannabinoids, cocaine and opiates) and antibodies to any number of viruses (including orthomyxoviruses, (e.g. influenza virus), paramyxoviruses (e.g respiratory syncytial virus, mumps virus, measles virus), adenoviruses, rhinoviruses, coronaviruses, reoviruses, togaviruses (e.g. rubella virus), parvoviruses, poxviruses (e.g. variola virus, vaccinia virus), enteroviruses (e.g. poliovirus, coxsackievirus), hepatitis viruses (including A, B and C), herpesviruses (e.g. Herpes simplex virus, varicella-zoster virus, cytomegalovirus, Epstein-Barr virus), rotaviruses, Norwalk viruses, hantavirus, arenavirus, rhabdovirus (e.g. rabies virus), retroviruses (including HIV, HTLV-I and -II), papovaviruses (e.g. papillomavirus), polyomaviruses, and picornaviruses, and the like), and bacteria (including a wide variety of pathogenic and non-pathogenic prokaryotes of interest including Bacillus; Vibrio, e.g. V. cholerae; Escherichia, e.g. Enterotoxigenic E. coli, Shigella, e.g. S. dysenteriae; Salmonella, e.g. S. typhi; Mycobacterium e.g. M. tuberculosis, M. leprae; Clostridium, e.g. C. botulinum, C. tetani, C. difficile, C.perfringens; Cornyebacterium, e.g. C. diphtheriae; Streptococcus, S. pyogenes, S. pneumoniae; Staphylococcus, e.g. S. aureus; Haemophilus, e.g. H. influenzae; Neisseria, e.g. N. meningitidis, N. gonorrhoeae; Yersinia, e.g. G. lamblia Y. pestis, Pseudomonas, e.g. P. aeruginosa, P. putida; Chlamydia, e.g. C. trachomatis; Bordetella, e.g. B. pertussis; Treponema, e.g. T. palladium; and the like); (2) enzymes (and other proteins), including but not limited to, enzymes used as indicators of or treatment for heart disease, including creatine kinase, lactate dehydrogenase, aspartate amino transferase, troponin T, myoglobin, fibrinogen, cholesterol, triglycerides, thrombin, tissue plasminogen activator (tPA); pancreatic disease indicators including amylase, lipase. chymotrypsin and trypsin; liver function enzymes and proteins including cholinesterase, bilirubin, and alkaline phosphotase; aldolase, prostatic acid phosphatase, terminal deoxynucleotidyl transferase, and bacterial and viral enzymes such as HIV protease; (3) hormones and cytokines (many of which serve as ligands for cellular receptors) such as erythropoietin (EPO), thrombopoietin (TPO), the interleukins

(including IL-1 through IL-17), insulin, insulin-like growth factors (including IGF-1 and -2), epidermal growth factor (EGF), transforming growth factors (including TGF-α and TGF-β), human growth hormone, transferrin, epidermal growth factor (EGF), low density lipoprotein, high density lipoprotein, leptin, VEGF, PDGF, ciliary neurotrophic factor, prolactin, adrenocorticotropic hormone (ACTH), calcitonin, human chorionic gonadotropin, cotrisol, estradiol, follicle stimulating hormone (FSH), thyroid-stimulating hormone (TSH), leutinzing hormone (LH), progeterone, testosterone, ; and (4) other proteins (including α-fetoprotein, carcinoembryonic antigen CEA.

In addition, any of the biomolecules for which antibodies may be detected may be detected directly as

well; that is, detection of virus or bacterial cells, therapeutic and abused drugs, etc., may be done
directly.

5

15

20

25

30

35

Suitable target analytes include carbohydrates, including but not limited to, markers for breast cancer (CA15-3, CA 549, CA 27.29), mucin-like carcinoma associated antigen (MCA), ovarian cancer (CA125), pancreatic cancer (DE-PAN-2), and colorectal and pancreatic cancer (CA 19, CA 50, CA242).

In a preferred embodiment, the target analyte (and various adapters and other probes of the invention), comprise nucleic acids. By "nucleic acid" or "oligonucleotide" or grammatical equivalents herein means at least two nucleotides covalently linked together. A nucleic acid of the present invention will generally contain phosphodiester bonds, although in some cases, as outlined below, nucleic acid analogs are included that may have alternate backbones, comprising, for example, phosphoramide (Beaucage et al., Tetrahedron 49(10):1925 (1993) and references therein; Letsinger, J. Org. Chem. 35;3800 (1970); Sprinzl et al., Eur. J. Biochem. 81:579 (1977); Letsinger et al., Nucl. Acids Res. 14:3487 (1986); Sawai et al., Chem. Lett. 805 (1984), Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); and Pauwels et al., Chemica Scripta 26:141 91986)), phosphorothioate (Mag et al., Nucleic Acids Res. 19:1437 (1991); and U.S. Patent No. 5,644,048), phosphorodithioate (Briu et al., J. Am. Chem. Soc. 111:2321 (1989), O-methylphophoroamidite linkages (see Eckstein, Oligonucleotides and Analogues: A Practical Approach, Oxford University Press), and peptide nucleic acid backbones and linkages (see Egholm, J. Am. Chem. Soc. 114:1895 (1992); Meier et al., Chem. Int. Ed. Engl. 31:1008 (1992): Nielsen, Nature, 365:566 (1993); Carlsson et al., Nature 380:207 (1996), all of which are incorporated by reference). Other analog nucleic acids include those with positive backbones (Denpcy et al., Proc. Natl. Acad. Sci. USA 92:6097 (1995); non-ionic backbones (U.S. Patent Nos. 5,386,023, 5,637,684, 5,602,240, 5,216,141 and 4,469,863; Kledrowshi et al., Angew. Chem. Intl. Ed. English 30:423 (1991); Letsinger et al., J. Am. Chem. Soc. 110:4470 (1988); Letsinger et al., Nucleoside & Nucleotide 13:1597 (1994); Chapters 2 and 3, ASC Symposium Series 580, "Carbohydrate Modifications in Antisense Research", Ed. Y.S. Sanghui and P. Dan Cook; Mesmaeker et al., Bioorganic & Medicinal Chem. Lett. 4:395 (1994); Jeffs et al., J. Biomolecular NMR 34:17 (1994); Tetrahedron Lett. 37:743 (1996)) and non-ribose backbones, including thos described in U.S.

Patent Nos. 5,235,033 and 5,034,506, and Chapters 6 and 7, ASC Symposium Series 580, "Carbohydrate Modifications in Antisens Research", Ed. Y.S. Sanghui and P. Dan Cook. Nucleic acids containing one or more carbocyclic sugars ar also included within the definition of nucleic acids (see Jenkins et al., Chem. Soc. Rev. (1995) pp169-176). Several nucleic acid analogs are described in Rawls, C & E News June 2, 1997 page 35. All of these references are hereby expressly incorporated by reference. These modifications of the ribose-phosphate backbone may be done to facilitate the addition of labels, alter the hybridization properties of the nucleic acids, or to increase the stability and half-life of such molecules in physiological environments.

5

25

30

35

As will be appreciated by those in the art, all of these nucleic acid analogs may find use in the present invention. In addition, mixtures of naturally occurring nucleic acids and analogs can be made.

Alternatively, mixtures of different nucleic acid analogs, and mixtures of naturally occurring nucleic acids and analogs may be made.

Particularly preferred are peptide nucleic acids (PNA) which includes peptide nucleic acid analogs.

These backbones are substantially non-ionic under neutral conditions, in contrast to the highly charged phosphodiester backbone of naturally occurring nucleic acids. This results in two advantages. First, the PNA backbone exhibits improved hybridization kinetics. PNAs have larger changes in the melting temperature (Tm) for mismatched versus perfectly matched basepairs. DNA and RNA typically exhibit a 2-4°C drop in Tm for an internal mismatch. With the non-ionic PNA backbone, the drop is closer to 7-9°C. This allows for better detection of mismatches. Similarly, due to their non-ionic nature, hybridization of the bases attached to these backbones is relatively insensitive to salt concentration.

The nucleic acids may be single stranded or double stranded, as specified, or contain portions of both double stranded or single stranded sequence. The nucleic acid may be DNA, both genomic and cDNA, RNA or a hybrid, where the nucleic acid contains any combination of deoxyribo- and ribo-nucleotides, and any combination of bases, including uracil, adenine, thymine, cytosine, guanine, inosine, xathanine hypoxathanine, isocytosine, isoguanine, etc. A preferred embodiment utilizes isocytosine and isoguanine in nucleic acids designed to be complementary to other probes, rather than target sequences, as this reduces non-specific hybridization, as is generally described in U.S. Patent No. 5,681,702. As used herein, the term "nucleoside" includes nucleotides as well as nucleoside and nucleotide analogs, and modified nucleosides such as amino modified nucleosides. In addition, "nucleoside" includes non-naturally occuring analog structures. Thus for example the individual units of a peptide nucleic acid, each containing a base, are referred to herein as a nucleoside.

In general, probes of the present invention (including adapter sequences and capture probes, described below) are designed to be complementary to a target sequence (either the target sequence of the sample or to other probe sequences, for example adapter sequences) such that hybridization of the target and the probes of the present invention occurs. This complementarity need not be perfect;

there may be any number of base pair mismatches that will interfere with hybridization between the target sequence and the single stranded nucleic acids of the pr sent inv ntion. How v r, if the number of mutations is so great that no hybridization can occur und r even the least stringent of hybridization conditions, the sequence is not a complementary target sequence. Thus, by "substantially complementary" herein is meant that the probes are sufficiently complementary to the target sequences to hybridize under the selected reaction conditions.

When nucleic acids are to be detected, they are referred to herein as "target nucleic acids" or "target sequences". The term "target sequence" or "target nucleic acid" or grammatical equivalents herein means a nucleic acid sequence on a single strand of nucleic acid. The target sequence may be a portion of a gene, a regulatory sequence, genomic DNA, cDNA, RNA including mRNA and rRNA, or others. As is outlined herein, the target sequence may be a target sequence from a sample, or a derivative target such as a product of a reaction such as a detection sequence from an Invader™ reaction, a ligated probe from an OLA reaction, an extended probe from an SBE reaction, etc. It may be any length, with the understanding that longer sequences are more specific. As will be appreciated by those in the art, the complementary target sequence may take many forms. For example, it may be contained within a larger nucleic acid sequence, i.e. all or part of a gene or mRNA, a restriction fragment of a plasmid or genomic DNA, among others. As is outlined more fully below, probes are made to hybridize to target sequences to determine the presence or absence of the target sequence in a sample. Generally speaking, this term will be understood by those skilled in the art. The target sequence may also be comprised of different target domains; for example, a first target domain of the sample target sequence may hybridize to a capture probe, a second target domain may hybridize to a portion of a label probe, etc. The target domains may be adjacent or separated as indicated. Unless specified, the terms "first" and "second" are not meant to confer an orientation of the sequences with respect to the 5'-3' orientation of the target sequence. For example, assuming a 5'-3' orientation of the complementary target sequence, the first target domain may be located either 5' to the second domain, or 3' to the second domain. In addition, as will be appreciated by those in the art, the probes on the surface of the array (e.g. attached to the microspheres) may be attached in either orientation, either such that they have a free 3' end or a free 5' end.

30

35

5

10

15

20

25

As is more fully outlined below, the target sequence may comprise a position for which sequence information is desired, generally referred to herein as the "detection position" or "detection locus". In a preferred embodiment, the detection position is a single nucleotide, although in some embodiments, it may comprise a plurality of nucleotides, either contiguous with each other or separated by one or more nucleotides. By "plurality" as used herein is meant at least two. As used herein, the base which basepairs with a detection position base in a hybrid is termed a "readout position" or an "interrogation position".

In some embodiments, as is outlined herein, the target sequence may not be the sample target

sequence but instead is a product of a reaction herein, sometimes ref rred to her in as a "secondary" or "derivative" target sequence. Thus, for example, in SBE, the extended primer may serve as the target sequence; similarly, in invasive cleavage variations, the cleaved detection sequence may serve as the target sequence.

5

If required, the target sequence is prepared using known techniques. For example, the sample may be treated to lyse the cells, using known lysis buffers, electroporation, etc., with purification and/or amplification as needed, as will be appreciated by those in the art.

10

Once prepared, the target sequence can be used in a variety of reactions for a variety of reasons. For example, in a preferred embodiment, genotyping reactions are done. Similarly, these reactions can also be used to detect the presence or absence of a target sequence. Sequencing or amplification reactions are also preferred. In addition, in any reaction, quantitation of the amount of a target sequence may be done.

15

Furthermore, as outlined below for each reaction, many of these techniques may be used in a solution based assay, wherein the reaction is done in solution and a reaction product is bound to the array for subsequent detection, or in solid phase assays, where the reaction occurs on the surface and is detected.

20

25

In general, the present invention provides pairs of capture probes (nucleic acids that are attached to addresses on arrays) and adapter sequences (sequences that are either perfectly or substantially complementary to the capture probe sequences) that can be used in a wide variety of ways, to immobilize target nucleic acids (either primary targets, such as genomic DNA, mRNA or cDNA, or secondary targets such as amplicons from a nucleic acid amplification or extension reaction, as outlined herein) to the addresses of the array. Thus, all the sequences in the Tables include their complements, and either sequence can be used as a capture probe (e.g. spotted onto a surface or attached to a microsphere of an array) or as the adapter sequence that binds to the capture probe.

30

Accordingly, by "adapter sequences" or "adapters" or grammatical equivalents is meant a nucleic acid segment generally non-native or exogenous to a target molecule that is used to immobilize the target molecule to a solid support via binding to a capture probe sequence. In a preferred embodiment the adapter sequences and capture probes are selected from the sequences set forth in Table II, Table III or Table IV.

35

Table I includes the sequence of the preferred 4000 sequences labeled "Decoder (5'-3')", and inherent in this table are the complementary sequences as well. In addition, the invention includes oligonucleotides that are complementary to those depicted in Table 1.

Table II includes the sequence of the preferred adapter/capture probe sequences and their complementary sequence. Table 2 depicts a preferred subset of 3172 decoder oligonucleotides and their complementary probe oligonucleotides. Accordingly, the invention provides compositions comprising a sequence as outlined in Table 2. In addition, the invention provides a composition comprising a complementary binding pair as outlined in Table 2.

Table 3 includes a preferred subset of 768 decoder oligonucleotides and complementary probe sequences. In some embodiments it may be desirable to include a uniform base at a terminus of the oligonucleotide, such as a T at the 5' end as depicted in Table 4. The inclusion of this uniform or constant base facilitates uniform labeling of the oligonucleotides.

These sequences are used as decoder probes, capture probes or adapter sequences as outlined in U.S.S.N. 09/344,526 and PCT/US99/14387, and U.S.S.N.s 60/160,917 and 09/5656,463 all of which are expressly incorporated by reference in their entirety.

15

5

10

As will be appreciated by those in the art, the length of the capture probe/adapter sequences will vary, depending on the desired "strength" of binding and the number of different adapters desired. In a preferred embodiment, adapter sequences range from about 5 to about 500 basepairs in length, with from about 8 to about 100 being preferred, and from about 10 to about 50 being particularly preferred.

20

25

30

As will be appreciated by those in the art, it is desirable to have adapter sequences that do not have significant homology to naturally occurring target sequences, to avoid non-specific or erroneous binding of target sequences to the capture probes. Accordingly, preferred embodiments utilize some method to select useful adapter sequences. In a preferred embodiment the method is outlined in Figure 1. Briefly, random 24-mer (or could be any desired length as outlined herein), sequences were assembled and subjected to certain defined screening procedures including such steps as requiring that the Tm of each of the sequence be within a pre-defined range. In addition the GC content must be balanced with the AT content and the self-complementarity must be minimized. In addition GC runs should be minimized, that is, runs of Gs or Cs should be reduced. In addition, decoder (adapter) to decoder (adapter) complementarity should be reduced so that the adapters do not hybridize with each other. Finally, the sequences are screened against a specified genomic database. In a preferred embodiment the adapters comprise at least one sequence selected from the sequences in Table II, Table III or Table IV.

35

In a preferred embodiment, the adapter sequences are chosen on the basis of a decoding step. As is more fully outlined below, a decoding step is used to decode random bead arrays. In this embodiment, a set of candidate capture probes is chosen; this may be done in a variety of ways. In a pr ferred embodiment, the sequences are generated randomly, each of a sufficient length to ensure a

low probability of occurring naturally. In some embodiments, for example when the array will be used with a particular organism's genome (e.g. the human genome, the Drosophila genome, etc.), the sequences are compared to the genome as a first filter, for example to remove sequences that would cross hybridize. Additionally, further filtering may be done using well-known methods, such as known methods for selecting good PCR primers. These techniques generally include steps that remove sequences that may have a propensity to form secondary structures or otherwise to cross-hybridize. Additionally, sequences that have extremes of melting temperatures can be optionally discarded, depending on the planned assay conditions.

5

10

15

20

25

30

35

Once a set of candidate capture probes is obtained, an array comprising the capture probes is made, and a matching set of decoding probes comprising the adapter sequences (e.g. the complements of the capture probes), as more fully outlined below, is made. Decoding then proceeds. Probes that do not hybridize well, for whatever reason, will not decode well, generally due to weak signals, and are generally discarded. Probes that cross-hybridize will also not decode well, as they will give ambiguous or mixed decoding signals. Only probes that hybridize sufficiently strongly and specifically will decode. Thus, by setting suitable thresholds for signal strength and signal purity, adapter sequences that perform according to specified criteria are identified. Additionally, by setting a range on signal strength, capture probe/adapter sequence pairs that perform similarly (but hybridize specifically) are identified. In a preferred embodiment, decoding reactions are repeated, under a variety of conditions, to test the robustness of the sequence pair.

Once identified, the adapter sequences are added to target sequences in a variety of ways, as will be appreciated by those in the art. In a preferred embodiment, nucleic acid amplification reactions are done, as is generally outlined in "Detection of Nucleic Acid Amplification Reactions Using Bead Arrays" and "Sequence Determination of Nucleic Acids using Arrays with Microspheres", both of which were filed on October 22, 1999, (U.S.S.N.'s 60/161,148 and 09/425,633, respectively), both of which are hereby incorporated by reference in their entirety. These may be either target amplification or signal amplification. In general, the techniques can be described as follows. Most amplification techniques require one or more primers hybridizing to all or part the target sequence (e.g. that hybridize to a target domain). The adapter sequences can be added to one or more of the primers (depending on the configuration/orientation of the system and need) and the amplification reactions are run. Thus, for example, PCR primers comprising at least one adapter sequence (and preferably one on each PCR primer) may be used; one or both of the ligation probes of an OLA or LCR reaction may comprise an adapter sequence; the sequencing primers for pyrosequencing, single-base extension, reversible chain termination, etc., reactions may comprise an adapter sequence; either the invader probe or the signalling probe of invasive cleavage reactions can comprise an adapter sequence; etc. Similarly, for signal detection techniques, the probes may comprise adapter sequences, with preferred methods utilizing removal of the unreacted probes. In addition, primers may include universal priming sequences. That is, the adapters may additionally contain universal priming sequences for universal

amplification of products of any of the reactions described herein. Universal priming sequences are further outlined in 09/779376, filed February 7, 2001; 09/779202, filed February 7, 2001; 09/915231, filed July 24, 2001; 60/180810, filed February 7, 2000; and 60/297609, filed June 11, 2001; and 60/311194 filed August 9, 2001, all of which are expressly incorporated herein by reference.

5

10

In an alternative embodiment, non-nucleic acid reactions are used to add adapter sequences to the nucleic acid targets. For example, for the direct detection of non-amplified target sequences (e.g. genomic DNA samples, etc.) on universal arrays, non-amplification methods are required. In this embodiment, binding partner pairs or chemical methods may be used. For example, one member of a binding partner pair may be attached to the adapter sequence and the other member attached to the target sequence. For example, the binding partner be a hapten or antigen, which will bind its binding partner. For example, suitable binding partner pairs include, but are not limited to: antigens (such as proteins (including peptides)) and antibodies (including fragments thereof (FAbs, etc.)); proteins and small molecules, including biotin/streptavidin and digoxygenin and antibodies; enzymes and substrates or inhibitors; other protein-protein interacting pairs; receptor-ligands; and carbohydrates and their binding partners, are also suitable binding pairs. Nucleic acid - nucleic acid binding proteins pairs are also useful. In general, the smaller of the pair is attached to the NTP (or the probe) for incorporation into the extension primer. Preferred binding partner pairs include, but are not limited to, biotin (or imino-biotin) and streptavidin, digeoxinin and Abs, and Prolinx™ reagents.

20

15

In a preferred embodiment, chemical attachment methods are used. In this embodiment, chemical functional groups on each of the target sequences and adapter sequences are used. As is known in the art, this may be accomplished in a variety of ways. Preferred functional groups for attachment are amino groups, carboxy groups, oxo groups and thiol groups, with amino groups being particularly preferred. Using these functional groups, the two sequences are joined together; for example, amino groups on each nucleic acid may be attached, for example using linkers as are known in the art; for example, homo-or hetero-bifunctional linkers as are well known (see 1994 Pierce Chemical Company catalog, technical section on cross-linkers, pages 155-200, incorporated herein by reference).

30

25

In a preferred embodiment, aptamers are used in the system. Aptamers are nucleic acids that can be made to bind to virtually any target analyte; see Bock et al., Nature 355:564 (1992); Femulok et al., Current Op. Chem. Biol. 2:230 (1998); and U.S. Patents 5,270,163, 5,475,096, 5,567,588, 5,595,877, 5,637,459, 5,683,867,5,705,337, and related patents, hereby incorporated by reference.

35

In a preferred embodiment, an array comprising capture probes that hybridize to adapter sequences is made, as outlined herein. In one embodiment aptamers, comprising adapter sequences, can be added. As will be appreciated by those in the art, the aptamers may be preassociated with their binding partners, e.g. target analytes, prior to introduction to the array, or not. In addition, the association between the adapter sequences on the aptamers and the capture probes can be made

covalent, for example through the use of reactive groups ( .g. psoralen) and appropriate activation.

In addition, the present invention is directed to the use of adapter sequences to assemble arrays comprising other target analytes.

5

The adapter sequences may be chosen as outlined above. Preferably the adapters are selected from the sequences set forth in Table I, Table II, Table III or Table IV. These adapter sequences can then be added to the target analytes using a variety of techniques. In general, as described above, non-covalent attachment using binding partner pairs may be done, or covalent attachment using chemical moieties (including linkers).

10

15

Advantages of using adapters include but are not limited to, for example, the ability to create universal arrays. That is, a single array is utilized with each capture probe designed to hybridize with a specific adapter. The adapters are joined to any number of target analytes, such as nucleic acids, as is described herein. Thus, the same array is used for vastly different target analytes. Furthermore, hybridization of adapters with capture probes results in non-covalent attachment of the target nucleic acid to the address of the array (e.g. a microsphere in some embodiments). As such, the target nucleic/adapter hybrid is easily removed, and the microsphere/capture probe can be re-used. In addition, the construction of kits is greatly facilitated by the use of adapters. For example, arrays or microspheres can be prepared that comprise the capture probe; the adapters can be packaged along with the microspheres for attachment to any target analyte of interest. Thus, one need only attach the adapter to the target analyte and disperse on the array for the construction of an array of target analytes.

25

20

Accordingly the present invention provides kits comprising adapters. Preferably the kits include at least 1 nucleic acid sequence as set forth in Table 1. More preferably the kits include at least 10-25 nucleic acids, with at least 50 nucleic acids more preferred. Even more preferable are kits that include at least 100 nucleic acids with more than 1000 even more preferred and more than 2000 even more preferred.

30

It should also be noted that the sequences defined herein can also be used in "sandwich" assay formats, wherein a capture extender probe comprising a first domain that will hybridize to the capture probe and a second domain that has a target specific domain is used. The capture extender probe hybridizes both to the target sequence and the capture probe, thereby immobilizing the target sequence on the array.

35

Once the adapter sequences are associated with the target analyte, including target nucleic acids, the compositions are added to an array comprising addresses comprising capture probes. In one embodiment a plurality of hybrid adapter sequence/target analytes are pooled prior to addition to an

array. All of the methods and compositions herein are drawn to compositions and methods for detecting the presence of target analytes, particularly nucleic acids, using adapter arrays.

5

10

15

20

25

30

35

Accordingly, the present invention provides array compositions comprising at least a first substrate with a surface comprising individual sites. The present system finds particular utility in array formats, i.e. wherein there is a matrix of capture probes (herein generally referred to "pads", "addresses" or "micro-locations"). By "array" or "biochip" herein is meant a plurality of nucleic acids in an array format; the size of the array will depend on the composition and end use of the array. Nucleic acids arrays are known in the art, and can be classified in a number of ways; both ordered arrays (e.g. the ability to resolve chemistries at discrete sites), and random arrays are included. Ordered arrays include, but are not limited to, those made using photolithography techniques (Affymetrix GeneChip™), spotting techniques (Synteni and others), printing techniques (Hewlett Packard and Rosetta), three dimensional "gel pad" arrays, etc. In one embodiment the ordered arrays include arrays that contain nucleic acids at known locations. That is, the adapters or capture probes described herein are immobilized at known locations on a substrate. By "known" locations is meant a site that is known or has been known.

In addition, adapters find use "liquid arrays". By "liquid arrays" is meant an array in solution for analysis, for example, by flow cytometry.

A preferred embodiment utilizes microspheres on a variety of substrates including fiber optic bundles, as are outlined in PCTs US98/21193, PCT US99/14387 and PCT US98/05025; WO98/50782; and U.S.S.N.s 09/287,573, 09/151,877, 09/256,943, 09/316,154, 60/119,323, 09/315,584; all of which are expressly incorporated by reference. While much of the discussion below is directed to the use of microsphere arrays on fiber optic bundles, any array format of nucleic acids on solid supports may be utilized.

Arrays containing from about 2 different bloactive agents (e.g. different beads, when beads are used) to many millions can be made, with very large arrays being possible. Generally, the array will comprise from two to as many as a billion or more, depending on the size of the beads and the substrate, as well as the end use of the array, thus very high density, high density, moderate density, low density and very low density arrays may be made. Preferred ranges for very high density arrays are from about 10,000,000 to about 2,000,000,000, with from about 100,000,000 to about 1,000,000 being preferred (all numbers being in square cm). High density arrays range about 100,000 to about 10,000,000, with from about 1,000,000 to about 5,000,000 being particularly preferred. Moderate density arrays range from about 10,000 to about 100,000 being particularly preferred, and from about 20,000 to about 50,000 being especially preferred. Low density arrays are generally less than 10,000, with from about 1,000 to about 5,000 being preferred. Very low density arrays are less than 1,000, with from about 10 to about 1000 being preferred, and from about 100 to about 500 being particularly preferred. In some embodiments, the compositions of the invention may

not be in array format; that is, for some embodiments, compositions comprising a single bloactive agent may be made as well. In addition, in some arrays, multiple substrates may be used, either of different or id ntical compositions. Thus for example, larg arrays may comprise a plurality of smaller substrates.

5

10

In addition, one advantage of the present compositions is that particularly through the use of fiber optic technology, extremely high density arrays can be made. Thus for example, because beads of 200 µm or less (with beads of 200 nm possible) can be used, and very small fibers are known, it is possible to have as many as 40,000 or more (in some instances, 1 million) different elements (e.g. fibers and beads) in a 1 mm² fiber optic bundle, with densities of greater than 25,000,000 individual beads and fibers (again, in some instances as many as 50-100 million) per 0.5 cm² obtainable (4 million per square cm for 5 µ center-to-center and 100 million per square cm for 1 µ center-to-center).

15

By "substrate" or "solid support" or other grammatical equivalents herein is meant any material that can be modified to contain discrete individual sites appropriate for the attachment or association of beads and is amenable to at least one detection method. As will be appreciated by those in the art, the number of possible substrates is very large. Possible substrates include, but are not limited to, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, optical fiber bundles, and a variety of other polymers. In general, the substrates allow optical detection and do not themselves appreciably fluoresce.

25

20

Generally the substrate is flat (planar), although as will be appreciated by those in the art, other configurations of substrates may be used as well; for example, three dimensional configurations can be used, for example by embedding the beads in a porous block of plastic that allows sample access to the beads and using a confocal microscope for detection. Similarly, the beads may be placed on the inside surface of a tube, for flow-through sample analysis to minimize sample volume. Preferred substrates include optical fiber bundles as discussed below, and flat planar substrates such as glass, polystyrene and other plastics and acrylics.

30

35

In a preferred embodiment, the substrate is an optical fiber bundle or array, as is generally described in U.S.S.N.s 08/944,850 and 08/519,062, PCT US98/05025, and PCT US98/09163, all of which are expressly incorporated herein by reference. Preferred embodiments utilize preformed unitary fiber optic arrays. 'By "preformed unitary fiber optic array" herein is meant an array of discrete individual fiber optic strands that are co-axially disposed and joined along their lengths. The fiber strands are generally individually clad. However, one thing that distinguished a preformed unitary array from other fiber optic formats is that the fibers are not individually physically manipulatable; that is, one strand

generally cannot be physically separated at any point along its length from another fiber strand.

5

10

15

20

25

30

35

At least one surface of the substrate is modified to contain discrete, individual sites for later association of microspheres. These sites may comprise physically altered sites, i.e. physical configurations such as wells or small depressions in the substrate that can retain the beads, such that a microsphere can rest in the well, or the use of other forces (magnetic or compressive), or chemically altered or active sites, such as chemically functionalized sites, electrostatically altered sites, hydrophobically/ hydrophilically functionalized sites, spots of adhesive, etc.

The sites may be a pattern, i.e. a regular design or configuration, or randomly distributed. A preferred embodiment utilizes a regular pattern of sites such that the sites may be addressed in the X-Y coordinate plane. "Pattern" in this sense includes a repeating unit cell, preferably one that allows a high density of beads on the substrate. However, it should be noted that these sites may not be discrete sites. That is, it is possible to use a uniform surface of adhesive or chemical functionalities, for example, that allows the attachment of beads at any position. That is, the surface of the substrate is modified to allow attachment of the microspheres at individual sites, whether or not those sites are contiguous or non-contiguous with other sites. Thus, the surface of the substrate may be modified such that discrete sites are formed that can only have a single associated bead, or alternatively, the surface of the substrate is modified and beads may go down anywhere, but they end up at discrete sites.

In a preferred embodiment, the surface of the substrate is modified to contain wells, i.e. depressions in the surface of the substrate. This may be done as is generally known in the art using a variety of techniques, including, but not limited to, photolithography, stamping techniques, molding techniques and microetching techniques. As will be appreciated by those in the art, the technique used will depend on the composition and shape of the substrate.

In a preferred embodiment, physical alterations are made in a surface of the substrate to produce the sites. In a preferred embodiment, the substrate is a fiber optic bundle and the surface of the substrate is a terminal end of the fiber bundle, as is generally described in 08/818,199 and 09/151,877, both of which are hereby expressly incorporated by reference. In this embodiment, wells are made in a terminal or distal end of a fiber optic bundle comprising individual fibers. In this embodiment, the cores of the individual fibers are etched, with respect to the cladding, such that small wells or depressions are formed at one end of the fibers. The required depth of the wells will depend on the size of the beads to be added to the wells.

Generally in this embodiment, the microspheres are non-covalently associated in the wells, although the wells may additionally be chemically functionalized as is generally described below, cross-linking agents may be used, or a physical barrier may be used, i.e. a film or membrane over the beads.

In a pr ferred mbodiment, th surface of the substrate is modified to contain chemically modified sites, that can be used to attach, ither covalently or non-covalently, the microspheres of the invention to the discrete sites or locations on the substrate. "Chemically modified sit s" in this context includes, but is not limited to, the addition of a pattern of chemical functional groups including amino groups, carboxy groups, oxo groups and thiol groups, that can be used to covalently attach microspheres, which generally also contain corresponding reactive functional groups; the addition of a pattern of adhesive that can be used to bind the microspheres (either by prior chemical functionalization for the addition of the adhesive or direct addition of the adhesive); the addition of a pattern of charged groups (similar to the chemical functionalities) for the electrostatic attachment of the microspheres, i.e. when the microspheres comprise charged groups opposite to the sites; the addition of a pattern of chemical functional groups that renders the sites differentially hydrophobic or hydrophilic, such that the addition of similarly hydrophobic or hydrophilic microspheres under suitable experimental conditions will result in association of the microspheres to the sites on the basis of hydroaffinity. For example, the use of hydrophobic sites with hydrophobic beads, in an aqueous system, drives the association of the beads preferentially onto the sites. As outlined above, "pattern" in this sense includes the use of a uniform treatment of the surface to allow attachment of the beads at discrete sites, as well as treatment of the surface resulting in discrete sites. As will be appreciated by those in the art, this may be accomplished in a variety of ways.

In a preferred embodiment, the compositions of the invention further comprise a population of microspheres. By "population" herein is meant a plurality of beads as outlined above for arrays. Within the population are separate subpopulations, which can be a single microsphere or multiple identical microspheres. That is, in some embodiments, as is more fully outlined below, the array may contain only a single bead for each capture probe; preferred embodiments utilize a plurality of beads of each type.

By "microspheres" or "beads" or "particles" or grammatical equivalents herein is meant small discrete particles. The composition of the beads will vary, depending on the class of capture probe and the method of synthesis. Suitable bead compositions include those used in peptide, nucleic acid and organic moiety synthesis, including, but not limited to, plastics, ceramics, glass, polystyrene, methylstyrene, acrylic polymers, paramagnetic materials, thoria sol, carbon graphite, titanium dioxide, latex or cross-linked dextrans such as Sepharose, cellulose, nylon, cross-linked micelles and Teflon may all be used. "Microsphere Detection Guide" from Bangs Laboratories, Fishers IN is a helpful guide.

35

30

5

10

15

20

25

The beads need not be spherical; irregular particles may be used. In addition, the beads may be porous, thus increasing the surface area of the bead available for either capture probe attachment or tag attachment. The bead sizes range from nanometers, i.e. 100 nm, to millimeters, i.e. 1 mm, with beads from about 0.2 micron to about 200 microns being preferr d, and from about 0.5 to about 5

micron being particularly preferred, although in some embodiments smaller beads may be used.

It should be noted that a key compon int of this embodiment of the invention is the use of a substrate/bead pairing that allows the association or attachment of the beads at discrete sites on the surface of the substrate, such that the beads do not move during the course of the assay.

Each microsphere comprises a capture probe, although as will be appreciated by those in the art, there may be some microspheres which do not contain a capture probe, depending on the synthetic methods. Alternatively, some have more than one capture probe.

10

15

5

Attachment of the nucleic acids may be done in a variety of ways, as will be appreciated by those in the art, including, but not limited to, chemical or affinity capture (for example, including the incorporation of derivatized nucleotides such as AminoLink or biotinylated nucleotides that can then be used to attach the nucleic acid to a surface, as well as affinity capture by hybridization), cross-linking, and electrostatic attachment, etc. In a preferred embodiment, affinity capture is used to attach the nucleic acids to the beads. For example, nucleic acids can be derivatized, for example with one member of a binding pair, and the beads derivatized with the other member of a binding pair. Suitable binding pairs are as described herein for IBL/DBL pairs. For example, the nucleic acids may be biotinylated (for example using enzymatic incorporate of biotinylated nucleotides, for by photoactivated cross-linking of biotin). Biotinylated nucleic acids can then be captured on streptavidincoated beads, as is known in the art. Similarly, other hapten-receptor combinations can be used, such as digoxigenin and anti-digoxigenin antibodies. Alternatively, chemical groups can be added in the form of derivatized nucleotides, that can them be used to add the nucleic acid to the surface.

20

25

Preferred attachments are covalent, although even relatively weak interactions (i.e. non-covalent) can be sufficient to attach a nucleic acid to a surface, if there are multiple sites of attachment per each nucleic acid. Thus, for example, electrostatic interactions can be used for attachment, for example by having beads carrying the opposite charge to the bioactive agent.

30

Similarly, affinity capture utilizing hybridization can be used to attach nucleic acids to beads. For example, as is known in the art, polyA+RNA is routinely captured by hybridization to oligo-dT beads; this may include oligo-dT capture followed by a cross-linking step, such as psoralen crosslinking). If the nucleic acids of interest do not contain a polyA tract, one can be attached by polymerization with terminal transferase, or via ligation of an oligoA linker, as is known in the art.

35

Alternatively, chemical crosslinking may be done, for example by photoactivated crosslinking of thymidine to reactive groups, as is known in the art.

In a preferred embodiment, each bead comprises a single type of capture probe, although a plurality of

individual capture probes are preferably attached to each bead. Similarly, pr ferred embodiments utilize more than one microsphere containing a unique capture probe; that is, th re is redundancy built into the system by the use of subpopulations of microspheres, ach microsphere in the subpopulation containing the same capture probe.

In an alternative embodiment, each bead comprises a plurality of different capture probes.

5

10

15

20

25

30

35

As will be appreciated by those in the art, the capture probes may either be synthesized directly on the beads, or they may be made and then attached after synthesis. In a preferred embodiment, linkers are used to attach the capture probes to the beads, to allow both good attachment, sufficient flexibility to allow good interaction with the target molecule, and to avoid undesirable binding reactions.

In a preferred embodiment, the capture probes are synthesized directly on the beads. As is known in the art, many classes of chemical compounds are currently synthesized on solid supports, such as peptides, organic moieties, and nucleic acids. It is a relatively straightforward matter to adjust the current synthetic techniques to use beads.

In a preferred embodiment, the capture probes are synthesized first, and then covalently attached to the beads. As will be appreciated by those in the art, this will be done depending on the composition of the capture probes and the beads. The functionalization of solid support surfaces such as certain polymers with chemically reactive groups such as thiols, amines, carboxyls, etc. is generally known in the art. Accordingly, "blank" microspheres may be used that have surface chemistries that facilitate the attachment of the desired functionality by the user. Some examples of these surface chemistries for blank microspheres include, but are not limited to, amino groups including aliphatic and aromatic amines, carboxylic acids, aldehydes, amides, chloromethyl groups, hydrazide, hydroxyl groups, sulfonates and sulfates.

In a preferred embodiment the attachment of nucleic acids to substrates includes contacting the oligonucleotide and the solid support in the presence of high salt concentrations. As is appreciated by those skilled in the art, salt includes, but is not limited to sodium chloride, potassium chloride, calcium chloride, magnesium chloride, lithium chloride, rubidium chloride, cesium chloride, barium chloride and the like. In a preferred embodiment, salt as used in the invention includes sodium chloride.

By high salt concentrations is meant salt that is more concentrated than about 0.1 M salt. In a preferred embodiment, by high salt concentrations is meant greater than about 0.2 M salt. In a particularly preferred embodiment, high salt concentrations include from about 0.5 to 3M salt, with about 1M to 2M being most preferred.

By solid support or other grammatical equivalents herein is meant any material that can be modified

to contain oligonucleotides. As will be appreciated by those in the art, the number of possible solid supports is very large. Possible solid supports include, but are not limited to beads, glass and modified or functionalized glass, plastics (including acrylics, polystyrene and copolymers of styrene and other materials, polypropylene, polyethylene, polybutylene, polyurethanes, Teflon, etc.), polysaccharides, nylon or nitrocellulose, resins, silica or silica-based materials including silicon and modified silicon, carbon, metals, inorganic glasses, plastics, optical fiber bundles, and a variety of other polymers.

5

10

15

20

25

30

35

Once formed, the support containing the oligonucleotides finds use in a variety of systems including decoding arrays as described in more detail in U.S.S.N. 09/344,526, and U.S.S.N. 09/574, 117, both of which are expressly incorporated herein by reference. In addition, the support containing the oligonucleotides finds use in microfluidic systems as described in U.S.S.N. 09/306,369 which is expressly incorporated herein by reference. In addition, the support containing the oligonucleotides finds use in composite array systems as described in U.S.S.N. 09/606,369, which is expressly incorporated herein by reference. In addition the support containing the oligonucleotides finds use in a variety of assays as outlined in more detail in U.S.S.N.s 09/513,362, 09/517,945, 09/535,854, 60/160,917, 60/180,810, 60/182,955, and 09/566,463, all of which are expressly incorporated herein by reference in their entirety. In addition, the support containing the oligonucleotides finds use in array based sensors as described in more detail in 09/287,573, 09/260,963, 09/450,829, 09/151,877, 09/187,289 and 08/519,062, all of which are expressly incorporated herein by reference in their entirety.

Accordingly the invention provides a method of attaching oligonucleotides to a solid support. The method includes contacting the oligonucleotides with the support in the presence of high salt as described herein. Once attached, as discussed in the examples, the attached oligonucleotides readily hybridize to targets, probes and the like. Attachment of crude oligonucleotides in the presence of high salt is as efficient as attaching purified oligonucleotides. Thus, the invention also contemplates a method of attachment of oligonucleotides to a solid support without prior purification of the oligonucleotides. Again, the method includes contacting the crude oligonucleotides with a solid support in the presence of high salt as described herein.

The capture probes are designed to be substantially complementary to the adapter sequences, to allow for a minimum of cross reactivity.

When microsphere arrays are used, an encoding/decoding system must be used. That is, since the beads are generally put onto the substrate randomly, there are several ways to correlate the functionality on the bead with its location, including the incorporation of unique optical signatures, generally fluorescent dyes, that could be used to identify the chemical functionality on any particular bead. This allows the synthesis of the candidate agents (i.e. compounds such as nucleic acids and

antibodies) to be divorced from the ir placement on an array, i.e. the candidate agents may be synthesized on the beads, and then the beads are randomly distributed on a patterned surface. Since the beads are first coded with an optical signature, this means that the array can later be "decoded", i.e. after the array is made, a correlation of the location of an individual site on the array with the bead or candidate agent at that particular site can be made. This means that the beads may be randomly distributed on the array, a fast and inexpensive process as compared to either the in situ synthesis or spotting techniques of the prior art.

5

10

15

20

25

30

35

However, the drawback to these methods is that for a large array, the system requires a large number of different optical signatures, which may be difficult or time-consuming to utilize. Accordingly, the present invention provides several improvements over these methods, generally directed to methods of coding and decoding the arrays. That is, as will be appreciated by those in the art, the placement of the capture probes is generally random, and thus a coding/decoding system is required to identify the probe at each location in the array. This may be done in a variety of ways, as is more fully outlined below, and generally includes: a) the use a decoding binding ligand (DBL), generally directly labeled, that binds to either the capture probe or to identifier binding ligands (IBLs) attached to the beads; b) positional decoding, for example by either targeting the placement of beads (for example by using photoactivatible or photocleavable moieties to allow the selective addition of beads to particular locations), or by using either sub-bundles or selective loading of the sites, as are more fully outlined below; c) selective decoding, wherein only those beads that bind to a target are decoded; or d) combinations of any of these. In some cases, as is more fully outlined below, this decoding may occur for all the beads, or only for those that bind a particular target sequence. Similarly, this may occur either prior to or after addition of a target sequence. In addition, as outlined herein, the target sequences detected may be either a primary target sequence (e.g. a patient sample), or a reaction product from one of the methods described herein (e.g. an extended SBE probe, a ligated probe, a cleaved signal probe, etc.).

Once the identity (i.e. the actual agent) and location of each microsphere in the array has been fixed, the array is exposed to samples containing the target sequences, although as outlined below, this can be done prior to or during the analysis as well. The target sequences can hybridize (either directly or indirectly) to the capture probes as is more fully outlined below, and results in a change in the optical signal of a particular bead.

In the present invention, "decoding" may not rely on the use of optical signatures, but rather on the use of decoding binding ligands that are added during a decoding step. The decoding binding ligands will bind either to a distinct identifier binding ligand partner that is placed on the beads, or to the capture probe itself. In this embodiment the decoding binding ligand either is complementary to the capture probe. In this embodiment the decoding binding ligand has the sequence of the adapter that also binds to the capture probe. In a preferred embodiment the decoder binding ligand is a nucleic acid

that has the sequence of at least one of the nucleic acids set forth in Table 1.

5

10

15

20

25

30

35

The decoding binding ligands are either directly or indirectly labeled, and thus decoding occurs by detecting the presence of the label. By using pools of decoding binding ligands in a sequential fashion, it is possible to greatly minimize the number of required decoding steps.

In some embodiments, the microspheres may additionally comprise identifier binding ligands for use in certain decoding systems. By "identifier binding ligands" or "IBLs" herein is meant a compound that will specifically bind a corresponding decoder binding ligand (DBL) to facilitate the elucidation of the identity of the capture probe attached to the bead. That is, the IBL and the corresponding DBL form a binding partner pair. By "specifically bind" herein is meant that the IBL binds its DBL with specificity sufficient to differentiate between the corresponding DBL and other DBLs (that is, DBLs for other IBLs), or other components or contaminants of the system. The binding should be sufficient to remain bound under the conditions of the decoding step, including wash steps to remove non-specific binding. In some embodiments, for example when the IBLs and corresponding DBLs are proteins or nucleic acids, the dissociation constants of the IBL to its DBL will be less than about 10-4-10-6 M-1, with less than about 10-5 to 10-8 M-1 being preferred and less than about 10-7-10-9 M-1 being particularly preferred.

IBL-DBL binding pairs are known or can be readily found using known techniques. For example, when the IBL is a protein, the DBLs include proteins (particularly including antibodies or fragments thereof (FAbs, etc.)) or small molecules, or vice versa (the IBL is an antibody and the DBL is a protein). Metal ion- metal ion ligands or chelators pairs are also useful. Antigen-antibody pairs, enzymes and substrates or inhibitors, other protein-protein interacting pairs, receptor-ligands, complementary nucleic acids, and carbohydrates and their binding partners are also suitable binding pairs. Nucleic acid - nucleic acid binding proteins pairs are also useful. Similarly, as is generally described in U.S. Patents 5,270,163, 5,475,096, 5,567,588, 5,595,877, 5,637,459, 5,683,867,5,705,337, and related patents, hereby incorporated by reference, nucleic acid "aptamers" can be developed for binding to virtually any target; such an aptamer-target pair can be used as the IBL-DBL pair. Similarly, there is a wide body of literature relating to the development of binding pairs based on combinatorial chemistry methods.

In a preferred embodiment, the IBL is a molecule whose color or luminescence properties change in the presence of a selectively-binding DBL. For example, the IBL may be a fluorescent pH indicator whose emission intensity changes with pH. Similarly, the IBL may be a fluorescent ion indicator, whose emission properties change with ion concentration.

Alternatively, the IBL is a molecule whose color or luminescence properties change in the presence of various solvents. For example, the IBL may be a fluorescent molecule such as an ethidium salt whose

fluorescence intensity increases in hydrophobic environments. Similarly, the IBL may be a derivative of fluorescein whose color changes between aqueous and nonpolar solvents.

In one embodiment, the DBL may be attached to a bead, i.e. a "decoder bead", that may carry a label such as a fluorophore.

5

10

20

25

30

35

In a preferred embodiment, the IBL-DBL pair comprise substantially complementary single-stranded nucleic acids. In this embodiment, the binding ligands can be referred to as "identifier probes" and "decoder probes". Generally, the identifier and decoder probes range from about 4 basepairs in length to about 1000, with from about 6 to about 100 being preferred, and from about 8 to about 40 being particularly preferred. What is important is that the probes are long enough to be specific, i.e. to distinguish between different IBL-DBL pairs, yet short enough to allow both a) dissociation, if necessary, under suitable experimental conditions, and b) efficient hybridization.

In a preferred embodiment, as is more fully outlined below, the IBLs do not bind to DBLs. Rather, the IBLs are used as identifier moieties ("IMs") that are identified directly, for example through the use of mass spectroscopy.

Alternatively, in a preferred embodiment, the IBL and the capture probe are the same moiety; thus, for example, as outlined herein, particularly when no optical signatures are used, the capture probe can serve as both the identifier and the agent. For example, in the case of nucleic acids, the bead-bound probe (which serves as the capture probe) can also bind decoder probes, to identify the sequence of the probe on the bead. Thus, in this embodiment, the DBLs bind to the capture probes.

In one embodiment, the microspheres may contain an optical signature. That is, as outlined in U.S.S.N.s 08/818,199 and 09/151,877, previous work had each subpopulation of microspheres comprising a unique optical signature or optical tag that is used to identify the unique capture probe of that subpopulation of microspheres; that is, decoding utilizes optical properties of the beads such that a bead comprising the unique optical signature may be distinguished from beads at other locations with different optical signatures. Thus the previous work assigned each capture probe a unique optical signature such that any microspheres comprising that capture probe are identifiable on the basis of the signature. These optical signatures comprised dyes, usually chromophores or fluorophores, that were entrapped or attached to the beads themselves. Diversity of optical signatures utilized different fluorochromes, different ratios of mixtures of fluorochromes, and different concentrations (intensities) of fluorochromes.

In a preferred embodiment, the present invention does not rely solely on the use of optical properties to decode the arrays. However, as will be appreciated by those in the art, it is possible in some embodiments to utilize optical signatures as an additional coding method, in conjunction with the

present system. Thus, for example, as is more fully outlined below, the size of the array may b effectively increased while using a single set of decoding moieties in several ways, on of which is the use of optical signatures one some beads. Thus, for example, using one "set" of decoding molecules, the use of two populations of beads, one with an optical signature and one without, allows the effective doubling of the array size. The use of multiple optical signatures similarly increases the possible size of the array.

5

10

15

20

25

30

35

In a preferred embodiment, each subpopulation of beads comprises a plurality of different IBLs. By using a plurality of different IBLs to encode each capture probe, the number of possible unique codes is substantially increased. That is, by using one unique IBL per capture probe, the size of the array will be the number of unique IBLs (assuming no "reuse" occurs, as outlined below). However, by using a plurality of different IBLs per bead, n, the size of the array can be increased to  $2^n$ , when the presence or absence of each IBL is used as the indicator. For example, the assignment of 10 IBLs per bead generates a 10 bit binary code, where each bit can be designated as "1" (IBL is present) or "0" (IBL is absent). A 10 bit binary code has  $2^{10}$  possible variants. However, as is more fully discussed below, the size of the array may be further increased if another parameter is included such as concentration or intensity; thus for example, if two different concentrations of the IBL are used, then the array size increases as  $3^n$ . Thus, in this embodiment, each individual capture probe in the array is assigned a combination of IBLs, which can be added to the beads prior to the addition of the capture probe, after, or during the synthesis of the capture probe, i.e. simultaneous addition of IBLs and capture probe components.

Alternatively, the combination of different IBLs can be used to elucidate the sequence of the nucleic acid. Thus, for example, using two different IBLs (IBL1 and IBL2), the first position of a nucleic acid can be elucidated: for example, adenosine can be represented by the presence of both IBL1 and IBL2; thymidine can be represented by the presence of IBL1 but not IBL2, cytosine can be represented by the presence of IBL2 but not IBL1, and guanosine can be represented by the absence of both. The second position of the nucleic acid can be done in a similar manner using IBL3 and IBL4; thus, the presence of IBL1, IBL2, IBL3 and IBL4 gives a sequence of AA; IBL1, IBL2, and IBL3 shows the sequence AT; IBL1, IBL3 and IBL4 gives the sequence TA, etc. The third position utilizes IBL5 and IBL6, etc. In this way, the use of 20 different identifiers can yield a unique code for every possible 10-mer.

In this way, a sort of "bar code" for each sequence can be constructed; the presence or absence of each distinct IBL will allow the identification of each capture probe.

In addition, the use of different concentrations or densities of IBLs allows a "reuse" of sorts. If, for example, the bead comprising a first agent has a 1X concentration of IBL, and a second bead comprising a second agent has a 10X concentration of IBL, using saturating concentrations of the

corresponding labelled DBL allows the user to distinguish b tween the two beads.

Once the microspheres comprising the capture probes are generated, they are added to the substrate to form an array. It should be noted that while most of the methods described herein add the beads to the substrate prior to the assay, the order of making, using and decoding the array can vary. For example, the array can be made, decoded, and then the assay done. Alternatively, the array can be made, used in an assay, and then decoded; this may find particular use when only a few beads need be decoded. Alternatively, the beads can be added to the assay mixture, i.e. the sample containing the target sequences, prior to the addition of the beads to the substrate; after addition and assay, the array may be decoded. This is particularly preferred when the sample comprising the beads is agitated or mixed; this can increase the amount of target sequence bound to the beads per unit time, and thus (in the case of nucleic acid assays) increase the hybridization kinetics. This may find particular use in cases where the concentration of target sequence in the sample is low; generally, for low concentrations, long binding times must be used.

15

20

10

5

In general, the methods of making the arrays and of decoding the arrays is done to maximize the number of different candidate agents that can be uniquely encoded. The compositions of the invention may be made in a variety of ways. In general, the arrays are made by adding a solution or slurry comprising the beads to a surface containing the sites for attachment of the beads. This may be done in a variety of buffers, including aqueous and organic solvents, and mixtures. The solvent can evaporate, and excess beads are removed.

25

In a preferred embodiment, when non-covalent methods are used to associate the beads with the array, a novel method of loading the beads onto the array is used. This method comprises exposing the array to a solution of particles (including microspheres and cells) and then applying energy, e.g. agitating or vibrating the mixture. This results in an array comprising more tightly associated particles, as the agitation is done with sufficient energy to cause weakly-associated beads to fall off (or out, in the case of wells). These sites are then available to bind a different bead. In this way, beads that exhibit a high affinity for the sites are selected. Arrays made in this way have two main advantages as compared to a more static loading: first of all, a higher percentage of the sites can be filled easily, and secondly, the arrays thus loaded show a substantial decrease in bead loss during assays. Thus, in a preferred embodiment, these methods are used to generate arrays that have at least about 50% of the sites filled, with at least about 75% being preferred, and at least about 90% being particularly preferred. Similarly, arrays generated in this manner preferably lose less than about 20% of the beads during an assay, with less than about 10% being preferred and less than about 5% being particularly preferred.

35

30

In this embodiment, the substrate comprising the surface with the discrete sites is immersed into a solution comprising the particles (beads, cells, etc.). The surface may comprise wells, as is described

herein, or other types of sit is on a patterned surface such that there is a differential affinity for the sit is. This differential affinity results in a competitive process, such that particles that will associate more tightly are selected. Preferably, the entire surface to be "loaded" with beads is in fluid contact with the solution. This solution is generally a slurry ranging from about 10,000:1 beads:solution (vol:vol) to 1:1. Generally, the solution can comprise any number of reagents, including aqueous buffers, organic solvents, salts, other reagent components, etc. In addition, the solution preferably comprises an excess of beads; that is, there are more beads than sites on the array. Preferred embodiments utilize two-fold to billion-fold excess of beads.

5

15

25

- The immersion can mimic the assay conditions; for example, if the array is to be "dipped" from above into a microtiter plate comprising samples, this configuration can be repeated for the loading, thus minimizing the beads that are likely to fall out due to gravity.
  - Once the surface has been immersed, the substrate, the solution, or both are subjected to a competitive process, whereby the particles with lower affinity can be disassociated from the substrate and replaced by particles exhibiting a higher affinity to the site. This competitive process is done by the introduction of energy, in the form of heat, sonication, stirring or mixing, vibrating or agitating the solution or substrate, or both.
- A preferred embodiment utilizes agitation or vibration. In general, the amount of manipulation of the substrate is minimized to prevent damage to the array; thus, preferred embodiments utilize the agitation of the solution rather than the array, although either will work. As will be appreciated by those in the art, this agitation can take on any number of forms, with a preferred embodiment utilizing microtiter plates comprising bead solutions being agitated using microtiter plate shakers.
  - The agitation proceeds for a period of time sufficient to load the array to a desired fill. Depending on the size and concentration of the beads and the size of the array, this time may range from about 1 second to days, with from about 1 minute to about 24 hours being preferred.
- It should be noted that not all sites of an array may comprise a bead; that is, there may be some sites on the substrate surface which are empty. In addition, there may be some sites that contain more than one bead, although this is not preferred.
- In some embodiments, for example when chemical attachment is done, it is possible to attach the beads in a non-random or ordered way. For example, using photoactivatible attachment linkers or photoactivatible adhesives or masks, selected sites on the array may be sequentially rendered suitable for attachment, such that defined populations of beads are laid down.

The arrays of the present invention are constructed such that information about the identity of the

capture probe is built into the array, such that the random deposition of the beads in the fiber wells can be "decoded" to allow identification of the capture probe at all positions. This may be done in a variety of ways, and either before, during or after the use of the array to detect target molecules.

Thus, after the array is made, it is "decoded" in order to identify the location of one or more of the capture probes, i.e. each subpopulation of beads, on the substrate surface.

In a preferred embodiment, pyrosequencing techniques are used to decode the array, as is generally described in "Nucleic Acid Sequencing using Microsphere Arrays", filed October 22, 1999 (no U.S.S.N. received yet), hereby incorporated by reference.

In a preferred embodiment, a selective decoding system is used. In this case, only those microspheres exhibiting a change in the optical signal as a result of the binding of a target sequence are decoded. This is commonly done when the number of "hits", i.e. the number of sites to decode, is generally low. That is, the array is first scanned under experimental conditions in the absence of the target sequences. The sample containing the target sequences is added, and only those locations exhibiting a change in the optical signal are decoded. For example, the beads at either the positive or negative signal locations may be either selectively tagged or released from the array (for example through the use of photocleavable linkers), and subsequently sorted or enriched in a fluorescence-activated cell sorter (FACS). That is, either all the negative beads are released, and then the positive beads are either released or analyzed in situ, or alternatively all the positives are released and analyzed. Alternatively, the labels may comprise halogenated aromatic compounds, and detection of the label is done using for example gas chromatography, chemical tags, isotopic tags mass spectral tags.

25

30

35

10

15

20

As will be appreciated by those in the art, this may also be done in systems where the array is not decoded; i.e. there need not ever be a correlation of bead composition with location. In this embodiment, the beads are loaded on the array, and the assay is run. The "positives", i.e. those beads displaying a change in the optical signal as is more fully outlined below, are then "marked" to distinguish or separate them from the "negative" beads. This can be done in several ways, preferably using fiber optic arrays. In a preferred embodiment, each bead contains a fluorescent dye. After the assay and the identification of the "positives" or "active beads", light is shown down either only the positive fibers or only the negative fibers, generally in the presence of a light-activated reagent (typically dissolved oxygen). In the former case, all the active beads are photobleached. Thus, upon non-selective release of all the beads with subsequent sorting, for example using a fluorescence activated cell sorter (FACS) machine, the non-fluorescent active beads can be sorted from the fluorescent negative beads. Alternatively, when light is shown down the negative fibers, all the negatives are non-fluorescent and the the postives are fluorescent, and sorting can proceed. The characterization of the attached capture probe may be done directly, for example using mass

spectroscopy.

5

20

25

30

35

Alternatively, the identification may occur through the use of identifier moieties ("IMs"), which are similar to IBLs but need not necessarily bind to DBLs. That is, rather than elucidate the structure of the capture probe directly, the composition of the IMs may serve as the identifier. Thus, for example, a specific combination of IMs can serve to code the bead, and be used to identify the agent on the bead upon release from the bead followed by subsequent analysis, for example using a gas chromatograph or mass spectroscope.

Alternatively, rather than having each bead contain a fluorescent dye, each bead comprises a non-fluorescent precursor to a fluorescent dye. For example, using photocleavable protecting groups, such as certain ortho-nitrobenzyl groups, on a fluorescent molecule, photoactivation of the fluorochrome can be done. After the assay, light is shown down again either the "positive" or the "negative" fibers, to distinquish these populations. The illuminated precursors are then chemically converted to a fluorescent dye. All the beads are then released from the array, with sorting, to form populations of fluorescent and non-fluorescent beads (either the positives and the negatives or vice versa).

In an alternate preferred embodiment, the sites of attachment of the beads (for example the wells) include a photopolymerizable reagent, or the photopolymerizable agent is added to the assembled array. After the test assay is run, light is shown down again either the "positive" or the "negative" fibers, to distinguish these populations. As a result of the irradiation, either all the positives or all the negatives are polymerized and trapped or bound to the sites, while the other population of beads can be released from the array.

In a preferred embodiment, the location of every capture probe is determined using decoder binding ligands (DBLs). As outlined above, DBLs are binding ligands that will either bind to identifier binding ligands, if present, or to the capture probes themselves, preferably when the capture probe is a nucleic acid or protein.

In a preferred embodiment, as outlined above, the DBL binds to the IBL.

In a preferred embodiment, the capture probes are single-stranded nucleic acids and the DBL is a substantially complementary single-stranded nucleic acid that binds (hybridizes) to the capture probe, termed a decoder probe herein. A decoder probe that is substantially complementary to each candidate probe is made and used to decode the array. In this embodiment, the candidate probes and the decoder probes should be of sufficient length (and the decoding step run under suitable conditions) to allow specificity; i.e. each candidate probe binds to its corresponding decoder probe with sufficient specificity to allow the distinction of each candidate probe.

In a preferr d embodiment, the DBLs are either directly or indirectly labeled. In a pr ferred embodiment, the DBL is directly labeled, that is, the DBL comprises a label. In an alternate mbodiment, the DBL is indirectly labeled; that is, a labeling binding ligand (LBL) that will bind to the DBL is used. In this embodiment, the labeling binding ligand-DBL pair can be as described above for IBL-DBL pairs.

Accordingly, the identification of the location of the individual beads (or subpopulations of beads) is done using one or more decoding steps comprising a binding between the labeled DBL and either the IBL or the capture probe (i.e. a hybridization between the candidate probe and the decoder probe when the capture probe is a nucleic acid). After decoding, the DBLs can be removed and the array can be used; however, in some circumstances, for example when the DBL binds to an IBL and not to the capture probe, the removal of the DBL is not required (although it may be desirable in some circumstances). In addition, as outlined herein, decoding may be done either before the array is used to in an assay, during the assay, or after the assay.

In one embodiment, a single decoding step is done. In this embodiment, each DBL is labeled with a unique label, such that the the number of unique tags is equal to or greater than the number of capture probes (although in some cases, "reuse" of the unique labels can be done, as described herein; similarly, minor variants of candidate probes can share the same decoder, if the variants are encoded in another dimension, i.e. in the bead size or label). For each capture probe or IBL, a DBL is made that will specifically bind to it and contains a unique tag, for example one or more fluorochromes. Thus, the identity of each DBL, both its composition (i.e. its sequence when it is a nucleic acid) and its label, is known. Then, by adding the DBLs to the array containing the capture probes under conditions which allow the formation of complexes (termed hybridization complexes when the components are nucleic acids) between the DBLs and either the capture probes or the IBLs, the location of each DBL can be elucidated. This allows the identification of the location of each capture probe; the random array has been decoded. The DBLs can then be removed, if necessary, and the target sample applied.

In a preferred embodiment, the number of unique labels is less than the number of unique capture probes, and thus a sequential series of decoding steps are used. In this embodiment, decoder probes are divided into n sets for decoding. The number of sets corresponds to the number of unique tags. Each decoder probe is labeled in n separate reactions with n distinct tags. All the decoder probes share the same n tags. The decoder probes are pooled so that each pool contains only one of the n tag versions of each decoder, and no two decoder probes have the same sequence of tags across all the pools. The number of pools required for this to be true is determined by the number of decoder probes and the n. Hybridization of each pool to the array generates a signal at every address. The sequential hybridization of ach pool in turn will generate a unique, sequence-specific code for each candidate probe. This identifies the candidate probe at each address in the array. For example, if four

tags are used, the n 4 X n sequential hybridizations can ideally distinguish 4<sup>n</sup> sequences, although in some cases more steps may be required. After the hybridization of each pool, the hybrids are denatured and the decoder probes removed, so that the probes are rendered single-stranded for the next hybridization (although it is also possible to hybridize limiting amounts of target so that the available probe is not saturated. Sequential hybridizations can be carried out and analyzed by subtracting pre-existing signal from the previous hybridization).

5

10

15

20

25

30

35

An example is illustrative. Assuming an array of 16 probe nucleic acids (numbers 1-16), and four unique tags (four different fluors, for example; labels A-D). Decoder probes 1-16 are made that correspond to the probes on the beads. The first step is to label decoder probes 1-4 with tag A, decoder probes 5-8 with tag B, decoder probes 9-12 with tag C, and decoder probes 13-16 with tag D. The probes are mixed and the pool is contacted with the array containing the beads with the attached candidate probes. The location of each tag (and thus each decoder and candidate probe pair) is then determined. The first set of decoder probes are then removed. A second set is added, but this time, decoder probes 1, 5, 9 and 13 are labeled with tag A, decoder probes 2, 6, 10 and 14 are labeled with tag B, decoder probes 3, 7, 11 and 15 are labeled with tag C, and decoder probes 4, 8, 12 and 16 are labeled with tag D. Thus, those beads that contained tag A in both decoding steps contain candidate probe 1; tag A in the first decoding step and tag B in the second decoding step contain candidate probe 2; tag A in the first decoding step and tag C in the second step contain candidate probe 3; etc. In one embodiment, the decoder probes are labeled in situ; that is, they need not be labeled prior to the decoding reaction. In this embodiment, the incoming decoder probe is shorter than the candidate probe, creating a 5' "overhang" on the decoding probe. The addition of labeled ddNTPs (each labeled with a unique tag) and a polymerase will allow the addition of the tags in a sequence specific manner, thus creating a sequence-specific pattern of signals. Similarly, other modifications can be done, including ligation, etc.

In addition, since the size of the array will be set by the number of unique decoding binding ligands, it is possible to "reuse" a set of unique DBLs to allow for a greater number of test sites. This may be done in several ways; for example, by using some subpopulations that comprise optical signatures. Similarly, the use of a positional coding scheme within an array; different sub-bundles may reuse the set of DBLs. Similarly, one embodiment utilizes bead size as a coding modality, thus allowing the reuse of the set of unique DBLs for each bead size. Alternatively, sequential partial loading of arrays with beads can also allow the reuse of DBLs. Furthermore, "code sharing" can occur as well.

In a preferred embodiment, the DBLs may be reused by having some subpopulations of beads comprise optical signatures. In a preferred embodiment, the optical signature is generally a mixture of reporter dyes, preferably flourescent. By varying both the composition of the mixture (i.e. the ratio of one dye to another) and the concentration of the dye (leading to differences in signal intensity), matrices of unique optical signatures may be generated. This may be done by covalently attaching the

dyes to the surface of the beads, or alternatively, by entrapping the dye within the bead.

5

10

15

20

25

30

35

In a preferred embodiment, the encoding can be accomplished in a ratio of at I ast two dyes, although more encoding dimensions may be added in the size of the beads, for example. In addition, the labels are distinguishable from one another; thus two different labels may comprise different molecules (i.e. two different fluors) or, alternatively, one label at two different concentrations or intensity.

In a preferred embodiment, the dyes are covalently attached to the surface of the beads. This may be done as is generally outlined for the attachment of the capture probes, using functional groups on the surface of the beads. As will be appreciated by those in the art, these attachments are done to minimize the effect on the dye.

In a preferred embodiment, the dyes are non-covalently associated with the beads, generally by entrapping the dyes in the pores of the beads.

Additionally, encoding in the ratios of the two or more dyes, rather than single dye concentrations, is preferred since it provides insensitivity to the Intensity of light used to interrogate the reporter dye's signature and detector sensitivity.

In a preferred embodiment, a spatial or positional coding system is done. In this embodiment, there are sub-bundles or subarrays (i.e. portions of the total array) that are utilized. By analogy with the telephone system, each subarray is an "area code", that can have the same tags (i.e. telephone numbers) of other subarrays, that are separated by virtue of the location of the subarray. Thus, for example, the same unique tags can be reused from bundle to bundle. Thus, the use of 50 unique tags in combination with 100 different subarrays can form an array of 5000 different capture probes. In this embodiment, it becomes important to be able to identify one bundle from another; in general, this is done either manually or through the use of marker beads, i.e. beads containing unique tags for each subarray.

In alternative embodiments, additional encoding parameters can be added, such as microsphere size. For example; the use of different size beads may also allow the reuse of sets of DBLs; that is, it is possible to use microspheres of different sizes to expand the encoding dimensions of the microspheres. Optical fiber arrays can be fabricated containing pixels with different fiber diameters or cross-sections; alternatively, two or more fiber optic bundles, each with different cross-sections of the individual fibers, can be added together to form a larger bundle; or, fiber optic bundles with fiber of the same size cross-sections can be used, but just with different sized beads. With different diameters, the largest wells can be filled with the largest microspheres and then moving onto progressively smaller microspheres in the smaller wells until all size wells are then filled. In this manner, the same dye ratio could be used to encode microspheres of different sizes thereby expanding the number of

different oligonucleotide sequences or chemical functionalities pres nt in the array. Although outlined for fiber optic substrates, this as well as the other methods outlined herein can be used with other substrates and with other attachment modalities as well.

5

10

15

20

25

30

35

In a preferred embodiment, the coding and decoding is accomplished by sequential loading of the microspheres into the array. As outlined above for spatial coding, in this embodiment, the optical signatures can be "reused". In this embodiment, the library of microspheres each comprising a different capture probe (or the subpopulations each comprise a different capture probe), is divided into a plurality of sublibraries; for example, depending on the size of the desired array and the number of unique tags, 10 sublibraries each comprising roughly 10% of the total library may be made, with each sublibrary comprising roughly the same unique tags. Then, the first sublibrary is added to the fiber optic bundle comprising the wells, and the location of each capture probe is determined, generally through the use of DBLs. The second sublibrary is then added, and the location of each capture probe is again determined. The signal in this case will comprise the signal from the "first" DBL and the "second" DBL; by comparing the two matrices the location of each bead in each sublibrary can be determined. Similarly, adding the third, fourth, etc. sublibraries sequentially will allow the array to be filled.

In a preferred embodiment, codes can be "shared" in several ways. In a first embodiment, a single code (i.e. IBL/DBL pair) can be assigned to two or more agents if the target sequences different sufficiently in their binding strengths. For example, two nucleic acid probes used in an mRNA quantitation assay can share the same code if the ranges of their hybridization signal intensities do not overlap. This can occur, for example, when one of the target sequences is always present at a much higher concentration than the other. Alternatively, the two target sequences might always be present at a similar concentration, but differ in hybridization efficiency.

Alternatively, a single code can be assigned to multiple agents if the agents are functionally equivalent. For example, if a set of oligonucleotide probes are designed with the common purpose of detecting the presence of a particular gene, then the probes are functionally equivalent, even though they may differ in sequence. Similarly, an array of this type could be used to detect homologs of known genes. In this embodiment, each gene is represented by a heterologous set of probes, hybridizing to different regions of the gene (and therefore differing in sequence). The set of probes share a common code. If a homolog is present, it might hybridize to some but not all of the probes. The level of homology might be indicated by the fraction of probes hybridizing, as well as the average hybridization intensity. Similarly, multiple antibodies to the same protein could all share the same code.

In a preferred embodiment, decoding of self-assembled random arrays is done on the bases of pH titration. In this embodiment, in addition to capture probes, the beads comprise optical signatures, wherein the optical signatures are generated by the use of pH-responsive dyes (sometimes r ferred to

herein as "ph dyes") such as fluorophores. This embodiment is similar to that outlined in PCT US98/05025 and U.S.S.N. 09/151,877, both of which are expressly incorporated by ref rence, xcept that the dyes used in the present ivention exhibits changes in fluorescence intensity (or other properties) when the solution pH is adjusted from below the pKa to above the pKa (or vice versa). In a preferred embodiment, a set of pH dyes are used, each with a different pKa, preferably separated by at least 0.5 pH units. Preferred embodiments utilize a pH dye set of pKa's of 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11, and 11.5. Each bead can contain any subset of the pH dyes, and in this way a unique code for the capture probe is generated. Thus, the decoding of an array is achieved by titrating the array from pH 1 to pH 13, and measuring the fluorescence signal from each bead as a function of solution pH.

5

10

15

20

25

30

35

Thus, the present invention provides array compositions comprising a substrate with a surface comprising discrete sites. A population of microspheres is distributed on the sites, and the population comprises at least a first and a second subpopulation. Each subpopulation comprises a capture probe, and, in addition, at least one optical dye with a given pKa. The pKas of the different optical dyes are different.

In a preferred embodiment, "random" decoding probes can be made. By sequential hybridizations or the use of multiple labels, as is outlined above, a unique hybridization pattern can be generated for each sensor element. This allows all the beads representing a given clone to be identified as belonging to the same group. In general, this is done by using random or partially degenerate decoding probes, that bind in a sequence-dependent but not highly sequence-specific manner. The process can be repeated a number of times, each time using a different labeling entity, to generate a different pattern of singals based on quasi-specific interactions. In this way, a unique optical signature is eventually built up for each sensor element. By applying pattern recognition or clustering algorithms to the optical signatures, the beads can be grouped into sets that share the same signature (i.e. carry the same probes).

In order to identify the actual sequence of the clone itself, additional procedures are required; for example, direct sequencing can be done, or an ordered array containing the clones, such as a spotted cDNA array, to generate a "key" that links a hybridization pattern to a specific clone.

Alternatively, clone arrays can be decoded using binary decoding with vector tags. For example, partially randomized oligos are cloned into a nucleic acid vector (e.g. plasmid, phage, etc.). Each oligonucleotide sequence consists of a subset of a limited set of sequences. For example, if the limites set comprises 10 sequences, each oligonucleotide may have some subset (or all of the 10) sequences. Thus each of the 10 sequences can be present or absent in the oligonucleotide. Therefore, there are 2<sup>10</sup> or 1,024 possible combinations. The sequences may overlap, and minor variants can also be represented (e.g. A, C, T and G substitutions) to increase the number of possible

combinations. A nucleic acid library is cloned into a vector containing the random code sequences. Alternatively, other methods such as PCR can be used to add the tags. In this way it is possible to use a small number of oligo decoding prob s to decode an array of clones.

As will be appreciated by those in the art, the systems of the invention may take on a large number of different configurations, as is generally depicted in the Figures. In general, there are three types of systems that can be used: (1) "non-sandwich" systems (also referred to herein as "direct" detection) in which the target sequence itself is labeled with detectable labels (again, either because the primers comprise labels or due to the incorporation of labels into the newly synthesized strand); (2) systems in which label probes directly bind to the target analytes; and (3) systems in which label probes are indirectly bound to the target sequences, for example through the use of amplifier probes.

5

10

15

20

25

30

35

Detection of the reactions of the invention, including the direct detection of products and indirect detection utilizing label probes (i.e. sandwich assays), is preferably done by detecting assay complexes comprising detectable labels, which can be attached to the assay complex in a variety of ways.

In a preferred embodiment, an array of different and usually artificial capture probes are made; that is, the capture probes do not have complementarity to known target sequences. The adapter sequences can then be added to any target sequences, or soluble capture extender probes are made; this allows the manufacture of only one kind of array, with the user able to customize the array through the use of adapter sequences or capture extender probes. This then allows the generation of customized soluble probes, which as will be appreciated by those in the art is generally simpler and less costly.

When capture extender probes are used, in one embodiment, microsphere arrays containing a single type of capture probe are made; in this embodiment, the capture extender probes are added to the beads prior to loading on the array. The capture extender probes may be additionally fixed or crosslinked, as necessary.

Accordingly, the present invention provides compositions and methods for detecting the presence or absence of target analytes, including nucleic acid sequences, in a sample. As will be appreciated by those in the art, the sample solution may comprise any number of things, including, but not limited to, bodily fluids (including, but not limited to, blood, urine, serum, lymph, saliva, anal and vaginal secretions, perspiration and semen, of virtually any organism, with mammalian samples being preferred and human samples being particularly preferred); environmental samples (including, but not limited to, air, agricultural, water and soil samples); biological warfare agent samples; research samples (i.e. in the case of nucleic acids, the sample may be the products of an amplification reaction, including both target and signal amplification); purified samples, such as purified genomic DNA, RNA, proteins, etc.; raw samples (bacteria, virus, genomic DNA, etc.; As will be appreciated by those in the

art, virtually any experimental manipulation may have been done n the sample.

The pr sent invention provides compositions and methods for detecting the presence or absence of target nucleic acid sequences in a sample.

5

10

15

In a preferred embodiment, several levels of redundancy are built into the arrays of the invention. Building redundancy into an array gives several significant advantages, including the ability to make quantitative estimates of confidence about the data and significant increases in sensitivity. Thus, preferred embodiments utilize array redundancy. As will be appreciated by those in the art, there are at least two types of redundancy that can be built into an array: the use of multiple identical sensor elements (termed herein "sensor redundancy"), and the use of multiple sensor elements directed to the same target analyte, but comprising different chemical functionalities (termed herein "target redundancy"). For example, for the detection of nucleic acids, sensor redundancy utilizes of a plurality of sensor elements such as beads comprising identical binding ligands such as probes. Target redundancy utilizes sensor elements with different probes to the same target: one probe may span the first 25 bases of the target, a second probe may span the second 25 bases of the target, etc. By building in either or both of these types of redundancy into an array, significant benefits are obtained. For example, a variety of statistical mathematical analyses may be done.

20

In addition, while this is generally described herein for bead arrays, as will be appreciated by those in the art, this techniques can be used for any type of arrays designed to detect target analytes. Furthermore, while these techniques are generally described for nucleic acid systems, these techniques are useful in the detection of other binding ligand/target analyte systems as well.

25

30

In a preferred embodiment, sensor redundancy is used. In this embodiment, a plurality of sensor elements, e.g. beads, comprising identical bioactive agents are used. That is, each subpopulation comprises a plurality of beads comprising identical bioactive agents (e.g. binding ligands). By using a number of identical sensor elements for a given array, the optical signal from each sensor element can be combined and any number of statistical analyses run, as outlined below. This can be done for a variety of reasons. For example, in time varying measurements, redundancy can significantly reduce the noise in the system. For non-time based measurements, redundancy can significantly increase the confidence of the data.

35

In a preferred embodiment, a plurality of identical sensor elements are used. As will be appreciated by those in the art, the number of identical sensor elements will vary with the application and use of the sensor array. In general, anywhere from 2 to thousands may be used, with from 2 to 100 being preferred, 2 to 50 being particularly preferred and from 5 to 20 being especially preferred. In general, preliminary results indicate that roughly 10 beads gives a sufficient advantage, although for some applications, more identical sensor elements can be used.

Once obtained, the optical response signals from a plurality of sensor beads within each bead subpopulation can be manipulated and analyzed in a wide variety of ways, including baseline adjustment, averaging, standard deviation analysis, distribution and cluster analysis, confidence interval analysis, mean testing, etc.

5

10

15

20

25

In a preferred embodiment, the first manipulation of the optical response signals is an optional baseline adjustment. In a typical procedure, the standardized optical responses are adjusted to start at a value of 0.0 by subtracting the integer 1.0 from all data points. Doing this allows the baseline-loop data to remain at zero even when summed together and the random response signal noise is canceled out. When the sample is a fluid, the fluid pulse-loop temporal region, however, frequently exhibits a characteristic change in response, either positive, negative or neutral, prior to the sample pulse and often requires a baseline adjustment to overcome noise associated with drift in the first few data points due to charge buildup in the CCD camera. If no drift is present, typically the baseline from the first data point for each bead sensor is subtracted from all the response data for the same bead. If drift is observed, the average baseline from the first ten data points for each bead sensor is substracted from the all the response data for the same bead. By applying this baseline adjustment, when multiple bead responses are added together they can be amplified while the baseline remains at zero. Since all beads respond at the same time to the sample (e.g. the sample pulse), they all see the pulse at the exact same time and there is no registering or adjusting needed for overlaying their responses. In addition, other types of baseline adjustment may be done, depending on the requirements and output of the system used.

Once the baseline has been adjusted, a number of possible statistical analyses may be run to generate known statistical parameters. Analyses based on redundancy are known and generally described in texts such as Freund and Walpole, Mathematical Statistics, Prentice Hall, Inc. New Jersey, 1980, hereby incorporated by reference in its entirety.

30

In a preferred embodiment, signal summing is done by simply adding the intensity values of all responses at each time point, generating a new temporal response comprised of the sum of all bead responses. These values can be baseline-adjusted or raw. As for all the analyses described herein, signal summing can be performed in real time or during post-data acquisition data reduction and analysis. In one embodiment, signal summing is performed with a commercial spreadsheet program (Excel, Microsoft, Redmond, WA) after optical response data is collected.

35

Methods for signal summing and analyses are included in U.S.S.N. 08/944,850, filed October 6, 1997; 09/287,573, filed April 6, 1999; and 60/238,866, filed October 6, 2000; an PCT Nos. US98/21193, filed October 6, 1998; and US00/09183, filed April 6, 2000.

Once made, the methods and compositions of the invention find use in a number of applications. In a

preferred embodiment, the compositions are used to probe a sample solution for the presence or absence of a target sequence, including the quantification of the amount of target sequence present. The compositions and methods find utility in the detection of genotyping assays and sequencing assays, and in all sorts of target analyte assays, including immunoassays.

For SNP analysis, the ratio of different labels at a particular location on the array indicates the homozygosity or heterozygosity of the target sample, assuming the same concentration of each readout probe is used. Thus, for example, assuming a first readout probe comprising a first base at the readout position with a first detectable label and a second readout probe comprising a second base at the readout position with a second detectable label, equal signals (roughly 1:1 (taking into account the different signal intensities of the different labels, different hybridization efficiencies, and other reasons)) of the first and second labels indicates a heterozygote. The absence of a signal from the first label (or a ratio of approximately 0:1) indicates a homozygote of the second detection base; the absence of a signal from the second label (or a ratio of approximately 1:0) indicates a homozygote for the first detection base. As is appreciated by those in the art, the actual ratios for any particular system are generally determined empirically.

Generally, a sample containing a target analyte (whether for detection of the target analyte or screening for binding partners of the target analyte) is added to the array, under conditions suitable for binding of the target analyte to at least one of the capture probes, i.e. generally physiological conditions. The presence or absence of the target analyte is then detected. As will be appreciated by those in the art, this may be done in a variety of ways, generally through the use of a change in an optical signal. This change can occur via many different mechanisms. A few examples include the binding of a dye-tagged analyte to the bead, the production of a dye species on or near the beads, the destruction of an existing dye species, a change in the optical signature upon analyte interaction with dye on bead, or any other optical interrogatable event.

In a preferred embodiment, the change in optical signal occurs as a result of the binding of a target analyte that is labeled, either directly or indirectly, with a detectable label, preferably an optical label such as a fluorochrome. Thus, for example, when a proteinaceous target analyte is used, it may be either directly labeled with a fluor, or indirectly, for example through the use of a labeled antibody. Similarly, nucleic acids are easily labeled with fluorochromes, for example during PCR amplification as is known in the art. Alternatively, upon binding of the target sequences, a hybridization indicator may be used as the label. Hybridization indicators preferentially associate with double stranded nucleic acid, usually reversibly. Hybridization indicators include intercalators and minor and/or major groove binding moieties. In a preferred embodiment, intercalators may be used; since intercalation generally only occurs in the presence of double stranded nucleic acid, only in the presence of target hybridization will the label light up. Thus, upon binding of the target analyte to a capture probe, there is a new optical signal generated at that site, which then may be detected.

Alternatively, in some cases, as discussed above, the target analyte such as an enzyme generates a species that is either directly or indirectly optical detectable.

Furthermore, in some embodiments, a change in the optical signature may be the basis of the optical signal. For example, the interaction of some chemical target analytes with some fluorescent dyes on the beads may alter the optical signature, thus generating a different optical signal.

As will be appreciated by those in the art, in some embodiments, the presence or absence of the target analyte may be done using changes in other optical or non-optical signals, including, but not limited to, surface enhanced Raman spectroscopy, surface plasmon resonance, radioactivity, etc.

The assays may be run under a variety of experimental conditions, as will be appreciated by those in the art. A variety of other reagents may be included in the screening assays. These include reagents like salts, neutral proteins, e.g. albumin, detergents, etc which may be used to facilitate optimal protein-protein binding and/or reduce non-specific or background interactions. Also reagents that otherwise improve the efficiency of the assay, such as protease inhibitors, nuclease inhibitors, anti-microbial agents, etc., may be used. The mixture of components may be added in any order that provides for the requisite binding. Various blocking and washing steps may be utilized as is known in the art.

20

25

15

5

10

The following examples serve to more fully describe the manner of using the above-described invention, as well as to set forth the best modes contemplated for carrying out various aspects of the invention. It is understood that these examples in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All references cited herein are incorporated by reference in their entirety.

## Examples

## Example 1

Immobilization of Crude Oligonucleotides to a Solid Support

- Introduce chemical functional group (such as -NH2, -COOH, -NCO, -NHS, -SH, -CHO, etc.) onto solid support.
  - 2. Activate the functional group before oligonucleotide attachment.
  - 3. 5'-terminal modified oligonucleotide attachment.

10

5

Crude Oligonucleotides were attached to supports and compared to results from attachment of purified oligonucleotides. As demonstrated in Figure 3, in the presence of 2M salt, crude oligonucleotides were immobilized as efficiently as purified oligonucleotides.

15 IN addition, the improved attachment of oligonucleotides to a solid support in the presence of increased salt was sequence and length independent. Thus, the method finds use in attachment of all oligonucleotides to a solid support (see Figure 4).

In addition, when 0.5 M to 3 M NaCl was used for attachment of oligonucleotides, non-purified oligonucleotides were attached with comparable efficiency when compared to purified oligonucleotides (see Figure 5).

## TABLE 1

•		
	Seq. ID No.	Decoder (5'-3')
	17	GGCTGGTTCGGCCCGAAAGCTTAG
	18	GTTCCCAGTGAAGCTGCGATCTGG
5	19	TACTTGGCATGGAATCCCTTACGC
	20	ACTAGCATATTTCAGGGCACCGGC
	21	GAACGGTCAATGAACCCGCTGTGA
	22	GCGGCCTTGGTTCAATATGAATCG
	23	GATCGTTAGAGGGACCTTGCCCGA
10	24	TGGACCTAGTCCGGCAGTGACGAA
	25	ATAAACTACCCAGGACGGGCGGAA
	26	CATCGGTTCGCGCCAATCCAGATA
	27	GTCGGGCATAGAGCCGACCACCCT
	28	CTTGGGTCATGATTCACCGTGCTA
15	29	TGCCTAACGTGCTAATCAGCAGCG
	30	CGCATGTTGGAGCATATGCCCTGA
	31	AGCCACTGCATCAGTGCTGTTCAA
	32	GGTTGTTTTGAGGCGTCCCACACT
	33	TCGACCAAGAGCAAGGGCGGACCA
20	34	GACATCGCTATTGCGCATGGATCA
	35	GAAATACGAAGTCTGCGGGAGTCG
	36	TGTCATGAATGATTGATCGCGCGA
	37	ATATCGGGATTCGTTCCCGGTGAA
	38	GCGAGCGTACCGAAGGGCCTAGAA
25	39	TTACCGGCAGCGGACTTCCGAATT
	40	GTAATCGAGAGCTGCGCGCCGTCT
	41	TCCCTGAGGTCGGAAGCTTCCGAC
	42	CCTGTTAGCGTAGGCGAGTCGATC
	43	TAGCGGACCGGCAGAATGAGTTCC
30	44	GGTACATGCACTACGCGCACTCGG
	45	AATTCATCTCGGACTCCCGCGGTA
	46	GCCAAATCTGGATTGGCAGGAATG
	47	TGCATTTTCGGTTGAGGCACATCC
	48	CCGCTCAATTCACCATGCTTCGCT
35	49 ·	CTCGGAAAGGTGCAACTTTGGTGT
	50	AATTCGACCAGCAGAACGTCCCAT
	51	GCCAGAGTCTCAACCTCACGGGAT
	52	CCAACAACTGGAACGGGAACCCGC
	53	GAGAACTGATCGCTGAGGGGCATG
40	54	GGCACACTAGACTTGTGGCACCGA

	55	CTTGGGCAAACGCTTCAGCCACAA
[	56	TCACATCCAAATATGGTCCGCGAA
	57	GTCTGCCGGTGTGACCGCTTCATT
·	58	CATCGCAGAGCATAAACACCCTCA
5	59	GTTGGTATCTATGGCAGAGGCGGA
	60	ACGAGGTGCCGCTGAGGTTCCATT
	61	GGAATGAGTGGACCCAGGCACATT
	62	TGTCAATATGCGTCCGTGTCGTCT
	63	TGATGAGCCTCAGGGTACGAGGCA
10	64	CACCGCGGTGTTCCTACAGAATGA
	65	TTGTTGCCAATGGTGTCCGCTCGG
	66	TTAACCTGCGTCTGCCCCTTTCCT
	67	AGGCGCGTTCCTGCCTTAGTGACG
	68	TAGGGCGATGGCACGAAGCTTCAA
15	69	TGCATAGAGCCAAAGTCGGCGATG
	70	TTGAGAGGCAGGTGGCCACACGGA
	71	TCCGCATTGTGAGAAAAAACGAGC
	72	GGCGGTTTCCGTAGCTATAGGTGC
	73	GGTGAAAATTTCGTAGCCACGGGC
20	74	CCGACGGAGGATGAAGACAATCAC
	75	CCAGTTTGGCCCAATTCGCCAAAA
	76	GGATCTATTAGGCCGTGCGCACAG
	77	CGGATGTCACCGTTTGGACTTTCA
	78	ATCGCAAATCCTGCTCGTCCCTAA
25	79	CAGGGCATGCAATAATCGAGGTTC
	80	CATGCGTTGATATATGGGCCCAAG
	81	CAGCTGCAGCTTGTGACCAACCAC
	82	TTGTATGTCTGCCGACCGGCGACC
i	83	GATGGCGCCCGTTGATAGGTATGG
30	84	ATGAGAATCGCCGGCAATCTGCTA
	85	ATTTGCACTGACCGCAGGCTCGTG
	86	CAGGGAGAACGGTTAAGTTCCCGT
	87	AGGCCGGCGATCGAGGAGTTTGGT
	88	ACACGGTGGTCTCTGATAGCGACC
35	89	GTGCAACGCCGAGGACTTCCATCA
	90	TCGGTGCCTGATAGCCATTCCGAT
	91	TGAAATACCACACAGCCAATTGGC
	92	GCATCGTGTACATGACTGCCGCGA
	93	CAGTGTTCTAACGGCGCGCGTGAA
40	94	CGCTTGCAACGTTGCACCTACTCT
	95	CGAAAACTAGTGGGCTCGCCGCG
	96	CTTTCAGGGGAACTGCCGGAGTCG

ſ	97	TTGTGGCCTTCTTGTAAAGGCACG
<u> </u>	98	TCCACGAACGGCGACCCGTTGTCT
Ī	99	CGACCTTGCACGAAACCTAACGAG
Ī	100	GTGCAGCTTCACGAGCCAGCCTGA
5	101	CGCTTTCGTGCGAATAGACGATGA
ľ	102	TGCGCTTACAGGCTCCTAGTGGTC
	103	CACGCGCTTAGTCGCGATCGCATA
[	104	CGGAGGGAGGAGCTAGCCTTCGA
	105	GCATCCGGCCTGTTGATGACGCCT
10	106	AGGCCAATCGATCTTATTGCCGAG
[	107	CCTTCCAATGATTGCATACGCCCA
	108	AACACTTGATCAGGCGGGTCGTCT
[	109	TGGAATCAAGGCCGTAAAGGACAG
	110	GCTCCCGTAACCTGTCCACCAGTG
15	111	AGTGGTGAATGGCCGCTACCCTGA
[	112	TGTTGAAGCGAGCTAAAACGGCCA
[	113	CAGCGCTCCAGAATTGACAGCAAT
{	114	AAGGTGGTGCCATTCATTTGGCTA
[	115	CGTTAAACCGCAATCCGTTCGGCT
20	116	TGTCTTCCACCTCGAAGGTTTCCA
	117	CACGAGATACCGGCGTAAGGGTGG
	118	CTACGGCAAACGTGTGGAATGGGT
	119	GTAGGGCGATGACGGCGAACTAC
	120	AATCGACCTCCGCACACATTCGCA
25	121	GAGTCAGCATGGCGGCGGAGATTC
	122	AGATAAAGACGCTGGCAACACGGG
	123	GGTACCTCAACGCGAACCACTTGT
	124	AAGCGATGGCTACCCAAGAGCGAT
	125	AGAGCTTATGCAGAACCAGGCGCC
30	126	ATCGGTCTCACGCAGGGTTGGATA
	127	TAGGTTGCCCGCCAGAAGAAACAT
	128	CGGTGCTGTTGCAAAAGCCTGTAG
	129	TGATGAAAGTTTGCGGCAGGACAC
	130	GTTGAGTGCAGGATAG
35	131	AACATTGCGCGGTCCACCAGGGTT
	132	GGGCAGTTAGAGAGGGCCAGAAGT
	133	TCGAGCTGGTCCCCGTGAACGTGT
• •	134	GTCTTGGGGGCCGCTTAGTGAAAA
	135	ACTGTTGGCTTGCTCATGTCCA
40	136	AGGACCATTCGGAAGGCGAAGATA
	137	CTTGGGAGGCATCCGCTATAAGGA
	138	AATAAACGGAACGCACCGCTACAG

-46-

	139	TTGTACGTGCGGTCCCCATAAGCA
	140	CGCACCAAACTGAGTTTCCCAGAC
	141	ACCTGATCGTTCCCCTATTGGGAA
	142	GGAACAGAGGCGAGGGGACTGAGC
5	143	CCCTGCCTTGGCGTGTCGGCTTAT
	144	ACTCTGACACGCCAACTCCGGAAG
[	145	CTGACGGTTTTCATTCGGCGTGCC
{	146	TGCGGTGGTTCATTGGAGCTGGCC
	147	GCATGGCCAACTAGTGACTCGCAA
10	148	AGGCCGTAAAGCGAATCTCACCTG
	149	CGAATATTATGCCGAGAATCCGCG
	150	ACAGACGAGCTCCCAACCACATGA
	151	GGACGGTTTGTGCTGGATTGTCTG
	152	AAAGGCTATTGAGTTGGTTGGGCG
15	153	GATGGCCTATTCGGAGATCGGGCC
	154	GATCCAGTAGGCAGCTTCATCCCA
	155	AATAACTCGCGCGGGTATGCTTCT
	156	GGAGGAGGTTTGTCTCGGAAAGCA
	157	CTTTGGTATGGCACATGCTGCCCG
20	158	AGAAAGGCTCGAGCAACGGGAACT
	159	AATCTACCGCACTGGTCCGCAAGT
	160	CGTGGCGGCCACAGTTTTTGGAGG
	161	TTGCAGTTCAATCCATACGCACGT
	162	GGCCCAAAGCCCCAGACCATTTTA
25	163	CGCCTGTCTTTGTCTCCGGACAAT
	164	TGAGGCAACAGGGGCCAAAAACTA
	165	AGCGGAAGTAGTCCTCGGCTCGTC.
	166	GGCCCCAAGGCTTAGAGATAGTGG
	167	GCACGTGAAGTTTAACCGCGATTC
30	168	AGCGGCAGAAACGTTCCTTGACGG
	169	TCGTCGAGCAGACGAGATTGCACG
1	170	TCTTTGCCGCGTAACTGACTGCTT
	171	TTTATGTGCCAAGGGGTTAACCGA
	172	TGTTACTGTGGTTCACGGCAGTCC
35	173	CGCGCCTCGCTAGACCTTTTATTG
	174	ACAAATGCGTGAGAGCTCCCAACT
	175	CGCGCAGATTATAGACCCGAATGT
	176	CAAATAACGCCGCTGAATCGGCGT
	177	CCTTCGTGCATCGGTGATGATGTT
40	178	TGAACACGAGCAACACTCCAACGC
	179	CAGCAGATCCTTCGTAGCGGTCGT
	180	GGAACCTGGTGAGTTGTGCCTCAT

ſ	181	TCATAAGCGACAATCGCGGGCTTA
Ī	182	CCCAACGTCACTGAAGCTCACAGT
Ī	183	TGTCAGAGCCCGCGACTCAGACGG
Ţ	184	TACACGAAGCCTCTCCGTGGTCCA
5	185	CTCAGAAGTCCTCGGCGAACTGGG
	186	ATCCTTTTATCTACTCCGCGGCGA
<b>[</b>	187	AGGCGTGCAGCAACAGGATAAACC
Ī	188	ACTCTCGAGGGAGTCTCTGGCACA
Ī	189	TTGCCAGGTCCATCGAGACCTGTT
10	190	TCCACTATAACTGCGGGTCCGTGT
[	191	GCCCAGTCGGCTCTAACAAGTTCG
	192	CGGAACGGATAATCGGCGTCAGGT
Ţ	193	TAAAATAAGCGCCTGGCGGGAGGA
	194	GCGCACTCGTGAAACCTTTCTCGC
15	195	AGTTTGCCAGGTACTGGCAAGTGC
	196	ACAACGAGGGATGTCCAGCGGCAT
	197	TTCGCAGCACCCGCTAGGTACAGT
	198	TAACCCGATTTTTGCGACTCTGCC
	199	CGTCGCATTGCAAGCGTAGGCTTG
20	200	GAGCTGACGTCACCATCAGAGGAA
	201	GGAGGCTGGGGGTCGCGCTTAAGT
	202	TTGTGGGAACCGCACTAGCTGGCT
	203	CCCTCGCACTGTGTTCACCCTCTT
	204	TCATTGACTCGAATCCGCACAACG
25	205 .	ACAGGGGTTGGCCTTCGTACGTAC
	206	AGGCCGTGCAACATCACACAGGAT
	207	GGGCCGTGGTCACGTAATATTGGC.
	208	GCGCGGACATGAAACGACAAGGCC
	209	CTTATTGGGTGCCGGTGTCGGATT
30	210	GGGGCGGTTACCAAAAAATCCGAT
	211	GCTAAAGCGTGCTCCGTAACTGCC
	212	ATCTCATGCATCTCGGTTCGTCGT
	213	ACGAAAAAGTGTGCGGATCCCCT
	214	CCAAGTACACCGCACGCATGTTTA
35	215	ATCGTGCGTGGAGTGTCGCATCTA
	216	TCCAGATACCGCCCGAACTTTGA
	217	TCTGCTGGCAGCACGTGAAGTGGC
	218	TTGAAATTGCTCTGCCGTCAGTCA
	219	AGTCAGGCGAGATGTTCAGGCAGC
40	220	ACAAGCCGACGTTAAGCCCGCCCA
	221	CCCTAATGAGGCCAGTAACCTGCA
	222	GTGAGACACACCCCCCCCAATG

-48-

Γ	223	CGACGGATGCAGAGTTCAGTGGTC
Ī	224	CCCGCATGCCTGGCGGTATTACAA
	225	TTAGCAAAGCGGCGCGTTAGCAA
·	226	CCCGACACGGGTCAGCGTAATAAT
5	227	GCGACGCCCTGAGGTATGTCGTC
	228	CAAAAGTGTGTTCCCTTGCGCTTG
{	229	TCTCGAAGCACAGCCCGGTTATTG
	230	ATGCTAACCGTTGGCCATGGAACT
	231	CTTGCGGAGTGTTAGCCCAGCGGT
10	232	TGCTCCCTAGGCGCTCGGAGGAGT
	233	CCAATGCCTTTGAGTAAGCGATGG
	234	AGCAGATAACGTCCCAATGACGCC
	235	TTGACCATTACGTGTTGCGCCCAT
	236	TCGCGTATTTGCGGAATTCGTCTG
15	237	CTGCGTGTCAACAATGTCCCGCAG
	238	TCTGGTGCCACGCAAGGTCCACAG
	239	CTCCGGGAGGTCACTTAATTGCGG
	240	TTTTCGTGATTGCCCGGAGGAGGC
[	241	TCGGGATGTAGCTGGGGCTACCGG
20	242	CGAGCCAACGCAAACACGTCCTTG
	243	GCAAAGCCTTTGTGGGGCGGTAGT
	244	ATTCGACCGGAAATGAGGTCTTCG
	245	TTCGCTTGCTGAGTTGCTCTGTTC
	246	CGCGTGAAGACCCCATTCCCGAGT
25	247	AACCGTATTCGCGGTCACTTGTGG
	248	GGGGCCAACCGTTTCGAGGCGTAT
	249	TTCGGCTGGCAGTCCAAACGGCTT
	250	GGGTGTGGTTAGAATGCACGGTTC
	251	GCGAGGACCGAACTAGACAAACGG
30	252	ACGCACGCGTGACCGAAGTTGCTG
	253	TAAAAGGTCGCTTTGAAAGGGGGA
	254	TGCGATCGCTAACTGCTGGGACAA
	255	GGAGGTATAAGCGGAGCGGCCTCA
	256	ATGCTGACATGTCGTGCACCTCGT
35	257	TGTGGTTAAAGCGTCCGTTCAACG
	258	CGTTCACACCGGCGTAAGCTGCGT
	259	CCTATCCCGGCGAGAACTTCTGTG
	260	GTCTGCACTCACGCAGCGGAGGGA
	261	GCACGAGTTGGTGCTCGGCAGATT
40	262	AACGTCGCACGACACGTTCGTC
:	263	ATGCGCGCTTATCCTAGCATGGTC
	264	TCACGTTTTCGTCTCGACATGAGG

265 TGTGCCTCATCCTTAGGATAGGGC 266 AGGTGGTGTGGGTCAACCGCTTTA 267 CTGGATCGAAGGGACTGCAAGCTC 268 TAGATCAACTGCGGTACGATGGA 269 GATCCTGCGGAGAGAGAGGTGCAG 270 TACGTGTGGAAGATGCCCCGAACCG 271 GCGCTATGTCAATCGTGGGCGTAGGA 272 AGCGAGGTTTAGCGTCGCACCC 273 CGATGAAGACAGGTTTGCTGTTGC 274 ACCCAGGTTTTGCCGTTGGGAT 275 CCCTGTTAACGGTCGCATAGTCT 276 AGGCCGATTTCACCCGCCAATCCC 277 GAGCCCTACTCCTTGCCTTTGC 276 AGGCCGATTCACCCGCCAATTCC 277 GAGCCCTCACTCCTTGCCTTTGA 278 GGGTGGACATCCGCCAATTCC 279 GATGGCTGAGAACCGGTCAACACT 280 TCGACTTAGAGATCCGCCAATTCC 281 CGAATGGGTCGAACCAT 281 CGAATGGGTCGAACCTTCCAAT 282 GTGCACCAGACATTCCAATCAGC 283 AGAGCCCCGATTCCAATCCAAT 284 AACGCCTTTCAACACCTCCAT 285 AAGGCTCAACACACCTTGCATCAC 286 AGTCCGTTCAACACACCCCTATGCCCAATCCCCAATCCAT 287 ATGTCCCATTAAACACGCCTATGCCCCAAACCCCCTATGTGCCCCCAAACCCCCTATTTCCCCTCCCCCAACCCCCCCAAACCCCCTATTCCCCCC	_		
267 CTGGATCGAAGGGACTGCAAGCTC 268 TAGATCAACTCGCGTACGCATGGA 269 GATCCTGCGGAGAAGAGAGTGCAG 270 TACGTGTGGAGAAGAGAGTGCAG 271 GCGCTATGTCAATCGTGGGCCTAGG 271 GCGCTATGTCAATCGTGGGCGTAG 272 AGCGAGGTTTCAACGCTGACACCC 273 CGATGAAGACAGGTTTGCTGTTGC 274 ACCCAGGTTTTGCCGTTGTGGAAT 275 CCCTGTTAACGGCTGCGTAGTCTC 276 AGGCCGATTTCACCGCCAATTGC 277 GAGCCCTTCACTCGTTGCCATTTGC 277 GAGCCCTTCACTCGTTGCCATTTGC 277 GAGCCCTCACTCGTTGCCCTTTGA 278 GGGTGGACATCCGCCTCGAGTCA 279 GATGGCTGAGAACCGTGCTACGAT 280 TCGACGTTAAGAGTGCTGCCAGAA 281 CGAATGGGTCTGCACTTGCACAT 282 GTGCACCAGACATTCGAACTCGGA 283 AGAGGCCCCGTATATCCCATCAT 284 AACGCCTGTTCAAGAGCATCAGGA 285 AAGGCTCAACACGCCTATGTGCG 286 AGTCCCTTTGCACATTGCACACAGA 287 ATGTCCCATGTTACAGAGCATTCGCACACACACACACACA	[	265	TGTGCCTCATCCTTAGGATACGGC
268         TAGATCACTCGCGTACGCATGGA           269         GATCCTGCGGAGAAGAGAGTGCAG           270         TACGTTGTGAGATTGCCCGAACCG           271         GCGCTATGTCAATCGTGGGCTAG           272         ACCGAGGTTTCAGTCGTGGACACC           273         CGATGAAGACAGGTTTGCTGTTGC           274         ACCCAGGTTTTGCCGTTGTGGAAT           275         CCCTGTTAACGGCTGCGTAGTCC           276         AGGCCGATTTCACCCGCCAATTGC           277         GAGCCCTCACTCCTTGCCCTTTGA           278         GGGTGGACATCCGCCTCGCAGTCA           279         GATGGCTGAGAACCGTGCTACGAT           280         TCGACGTTAGGATGCTGCACAA           281         CGAATTGGTTGGACCTTGCATAG           282         GTGCACCAGACATTCGAACTCGGA           281         CGAATGGTTGGACCTTGCATAG           282         GTGCACCAGACATTCGAACTCGGA           283         AGAGGCCCGTATATCCCATCCAT           20         284         AACGCCTGTTCAGAGCATCAGCG           285         AAGGCTCAACACGCCTATGTGCG           286         AGTCCGTGTTGCAACATTGCCAACAGC           287         ATGTCCATGTAAAGACGCCTAAC           288         ATGGAGTCACAAGAGAGCACTAAC           291         TCATTTGAATTAGAGATTGCAACAC           292         AGAGTACTGGAACATTGCAACA		266	AGGTGGTGGGTCAACCGCTTTA
5         269         GATCCTGCGGAGAAGAGAGTGCAG           270         TACGTGTGGAGATGCCCCGAACCG           271         GCGCTATGTCATTCGTGGGCGTAG           272         AGCGAGGTTTCTAGCGTCGACACC           273         CGATGAAGACAGGTTTGCTGTTGC           10         274         ACCCAGGTTTTGCCGTTGGAAT           275         CCCTGTTAACGGCTGCGTAGTCT           276         AGGCCGATTCACCCGCCAATTGC           277         GAGCCCTCACTCCTTGCCCTTTGA           278         GGGTGGACATCCGCCTCCAGTCA           279         GATGGCTGAGAACCGTGCTACGAT           280         TCGACGTTAGGAGTCCTGCCAGAA           281         CGAATGGGTCTGGACCTTGCATAG           282         GTGCACCAGACATTCGACCTGAA           283         AGAGGCCCGTATATCCATCAT           284         ACGCCTTTCCAGACCTCCAT           285         AAGGCTCACACACCCCTATGTGCGC           286         AGTCCGTGTTCACAGCCAACAGG           285         AAGGCTCACACACGCCTATGGCGC           286         AGTCCGTGTTGCCAACAAGAGACCATAAC           290         CAGAGCCTCCAACAAGAGACACATAAC           291         TCATTTGAATGAGGTCCGAGACCAGG           292         GACGTACCGGAACACATGCGCAGG           293         ATGCGAGCATAAGACACGCGTTAACA           294		267	CTGGATCGAAGGGACTGCAAGCTC
270   TACGTGTGGAGATGCCCCGAACCG   271   GCGCTATGTCAATCGTGGGCGTAG   272   AGCGAGGTTTCTAGCGTCGACACC   273   CGATGAAGACAGGTTTGCTGTTGC   274   ACCCAGGTTTTGCCGTTGTGGAAT   275   CCCTGTTAACGGCTGGAAT   275   CCCTGTTAACGGCTGCGTAGTCC   276   AGGCCGATTTGCCGTTAGGAAT   277   GAGCCCTCACTCCTTGCCGTTGCA   277   GAGCCCTCACTCCTTGCCGTTGA   278   GGGTGGAACCGTCCAGTCA   279   GATGGCTGAGAACCGTGCTACGAT   280   TCGACGTTAGGAGTCGCCAGAA   281   CGAATGGGTCTGCAACAG   282   GTGCACCAGACATTCGAACTCGAA   282   GTGCACCAGACATTCGAACTCGAA   283   AGAGGCCCCGTATATCCCATCCAT   284   AACGCCTGTTCAGAGCATCAGCG   285   AAGGCTCAACACGCCTATGTGCGC   286   AGTCCGTGTTCAGAGCATCAGCG   287   ATGTCCCATGTACACCGCCAAAGG   288   ATGGAGTCTGCCAGAACACGGCTAGCG   289   CGGCCTCCAACAAGGAGCACTAAC   290   CAGAGCGTGGCAACATGCGAGC   291   TCATTTGAATGAGGTGCGCCAAAGG   292   GACGTACCGGAACCGCCTATAAA   293   ATGCGAGCAATGGGATCCGGATCACCGCCAAAGGACACGCCTTACCCCCCAACAGGACACCGCCTATAAA   293   ATGCGAGCAATGGGATCCGATTCCCCCCCCCCCCCCCCC	Ţ	268	TAGATCAACTCGCGTACGCATGGA
271   GCGCTATGTCAATCGTGGGCGTAG   272   AGCGAGGTTTCTAGCGTCGACACC   273   CGATGAAGACAGGTTTGCTGTTGC   274   ACCCAGGTTTTGCCGTTGTGGAAT   275   CCCTGTTAACGGCTGCGAAGTCC   276   AGGCCGATTTCACCGCCAATTGC   277   GAGCCCTCACTCCTTGCACTTTGCACTTTGCACTTTGCCCTTTGA   278   GGGTGGACATCCGCCTCGCAGTCA   279   GATGGCTGAGACCGTGCTACGAT   280   TCGACGTTAGGAGTGCTCCAGAA   281   CGAATGGGCTGGAACCTTGCATAG   282   GTGCACCAGACATTCCGACTATAG   283   AGAGGCCCGGATTAGCACTAGACTCCGACACTCCAT   284   AACGCCTGTCAACACCGCCTATGCACCCCCAAACCCCCTATTAGACTCCGACCCCCAACCCCCCCC	5	269	GATCCTGCGGAGAAGAGAGTGCAG
272 AGCGAGGTTTCTAGCGTCGACACC 273 CGATGAAGACAGGTTTGCTGTC 274 ACCCAGGTTTTGCGTTGC 275 CCCTGTTAACGGCTGCGATATTCC 276 AGGCCGATTTCACCCGCCAATTGC 277 GAGCCCTCACTCCTTTGCA 278 GGGTGGACACCCTGCAGTCA 278 GGGTGGACATCCGCCTTTGA 278 GGGTGGACATCCGCCTAGCAT 279 GATGGCTAGAGACCGTGCTACGAT 280 TCGACGTTAGGAGTCTGCAGAA 281 CGAATGGGTCTGGACTTGCATAG 282 GTGCACCAGACATTCGAACTCGGA 283 AGAGGCCCGTATATCCCATCAT 284 AACGCCTGTTCAGAGCATCAGCA 285 AAGGCTCAACACGCCTATGTGCC 286 AGTCCGTGTTGCAGACATCAGCC 287 ATGTCCCATGTAAGACACGCTTG 288 ATGCAGTTGCAACACGCCTATGTGCC 288 ATGCAGTTGCAACACGCCTATGTGCCC 288 ATGCAGTTGCAACACGCCTATGTGCCC 289 CGCCTCCAACAAGGACATTACCCAACACGCCTAGC 290 CAGAGCCTGTGCAACATTGCACCC 291 TCATTTGAATGAAGACCCGG 292 GACGTACCAGAACATTGCAACC 293 ATGCCGAGCATCAGACACCCCCAAAGC 294 AGAGTGAGGCACTCCCTGACCAGCC 295 CGCACCGTAAGTAGATTCCCCCC 296 AGGGTATCGAGCCCCTAACACCCCCCCCCCCCCCCCCCC		270	TACGTGTGGAGATGCCCCGAACCG
273 CGATGAAGACAGGTTTGCTGTGC  274 ACCCAGGTTTTGCCGTTGTGGAAT  275 CCCTGTTAACGGCTGCGTAGTCTC  276 AGGCCGATTTCACCGCCCAATTGC  277 GAGCCCTCACTCCTTGCCCTTTGA  278 GGGTGGACATCCGCCTCAGTCA  279 GATGGCTGAGACCGTCCAGTCA  15 279 GATGGCTGAGACCGTCCAGACA  280 TCGACGTTAGGACTCGCCTGCAGTA  281 CGAATGGGTCTGGACCTTGCATAG  282 GTGCACCAGACATTCGAACTCGGA  283 AGAGGCCCCGTATATCCCATCAT  284 AACGCCTGTTCACAGCAGC  285 AAGGCTCAACAGCCCTATGTGCC  286 AGTCCGTGTTCACAGCAGCATCAGCG  287 ATGTCCCATGTAAAAACAGCGCTATGGCC  288 ATGGAGTCTGCACAAAGGACATCAGCG  289 CGGCCTCCAACAAGGACATTAGCACCGC  290 CAGAGCCGTGTGCACAAAGG  291 TCATTTGAATGAGAGCACTAAC  292 GACGTACCGGAATGGGATCCAGCC  292 GACGTACCGGAATGGGACCCAAAGC  293 ATGCGACATGGAACCGCCTATAAA  293 ATGCGACATGGAACCGCCGAATCC  294 AGAGTCAGGACCCGCAATCC  295 CGCACCGTAAGAAGACGCCTATCC  296 AGGGTATCCGGAATCCGGATTC  297 TGAACCTTTGACACAGTG  298 CGCCCTCTTTTGGTTACCCCGC  299 GACGTACCGGAACCACGGCCTACCAGTG  291 TCATTTGACACTGGACCCCCC  292 GACGTACCGGAATGCGCATCC  293 ATGCGACCATAGCACCGCCAACCCCCCC  294 AGAGTCAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTCCCCCC  296 AGGGTATCCGAACCACGCCCAACCCCCCCC  297 TGAACCTTTGAGCACCGTCCCCC  298 TCCGCCTTTTTTGGTTACCTCCAACC  300 CCGCACAGCACCACACCACCCCCCCCCCC  301 TTGTACACCTGGGCCACCACACCCCCCCCCCCCCCCCCC	Ī	271	GCGCTATGTCAATCGTGGGCGTAG
10		272	AGCGAGGTTTCTAGCGTCGACACC
275 CCCTGTTAACGGCTGCTAGTCTC  276 AGGCCGATTTCACCCGCCAATTGC  277 GAGCCCTCACTCCTTGCCCTTTGA  278 GGGTGGACATCCGCCTCGCAGTCA  279 GATGGCTGAGAACCGTGCTACGAT  280 TCGACGTTAGGAGTCTGCCAGAA  281 CGAATGGGTCTGGACCTTGCATAG  282 GTGCACCAGACATTCGACCTTGCATAG  283 AGAGGCCCCGTATATCCCATCAT  20 284 AACGCCTGTTCAGAGCATCAGCG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCAGATGCAGA  287 ATGTCCCATGTAAAGACGCCTATGTGCGC  288 ATGCAGTTGCACACACGCCAAAGG  289 CGGCCTCCAACAAGAGACATCAGCG  290 CAGAGCCTGTCACACGCCAAAGG  291 TCATTTGAATGAGGTGCGCACCAGG  292 GACGTACCGGAAACATTGCAACC  293 ATGCGAGCATTGCAGCCCAACAT  294 AGAGTGAGCCTCCTGACCAGTG  295 CGCACCGTAAGTAAAAAACCCGGCTATCC  296 AGGTATCGGAGCCACAGTG  297 TGAACCTTTGACACACTCCCCAGC  298 TCCGCCTTTTTGACACACTCCCCCCAGG  299 GACGTCCCAACATGGACCCCCCCCCCCCCCCCCCCCCCC		273	CGATGAAGACAGGTTTGCTGTTGC
276 AGGCCGATTTCACCCGCCAATTGC 277 GAGCCCTCACTCCTTGCCCTTTGA 278 GGGTGGACATCCGCCTCGCAGTCA 279 GATGGCTGAGAACCGTGCTACGAT 280 TCGACGTTAGGAGTCTGCCAGAA 281 CGAATGGGTCTGGACTTGCATAG 282 GTGCACCAGACATTCGAACTCGGA 283 AGAGGCCCGTATATCCCATCCAT 284 AACGCCTGTTCAGAGCATCAGC 285 AAGGCTCAACACGCCTATGTGCGC 286 AGTCCGTGTTGCAAGACGCCCCAAGAG 287 ATGTCCCATGTAAGACGCGTGTG 288 ATGGAGTCTGCAAGAGACGCCTAGCCCCAAGAG 289 CGGCCTCCAACAAGGACATCAGCG 290 CAGAGCCGTGGCAACATTGCACCC 291 TCATTTGAATGAGACGCCTAAC 292 GACGTACCGGAAGCGCCTATAAA 293 ATGCGAGCAATGGGATCCGG 294 AGAGTGAGGCTCCCTGACCAGTG 295 CGCACCGTAAGTAGATTTGCCCC 296 AGGGTATCGGAACATTGCGACC 297 TGAACCTTTGAGCACGTTACC 297 TGAACCTTTGAGCACGTTACC 298 TCCGCCTTTTTGGTTACCTCGAAG 301 TTGTACACCTGGGCCACAGG 302 CATAAAAAAACCTGGGGCTCTCCAG 303 TGCCAACTGTCAGCACCGC 304 GGCGAAAGACGCCACCGCACAGG 305 GGGATGCGTATTTTAGCGAACACCG 306 GGCGAAAGAGCGCCACCGC 307 TGCCAACTGTGCAGCCCCCAACAGG 307 TGCCAACTGTGCAGCCCCCCAACAGG 308 CCGACACTGTCCACACGGCCCCCAACGGCCCCCCAACAGGCCCCCCCC	10	274	ACCCAGGTTTTGCCGTTGTGGAAT
277 GAGCCCTCACTCCTTGCCTTTGA  278 GGGTGGACATCCGCCTCGCAGTCA  279 GATGGCTGAGAACCGTCTACGAT  280 TCGACGTTAGGAGTCTGCCAGAT  281 CGAATGGGTCTGGACCTTGCATAG  282 GTGCACCAGACATTCGAACTCGGA  283 AGAGGCCCCGTATATCCCATCCAT  20 284 AACGCCTGTTCAGAGCATCAGCG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCAGATTGGCTCG  287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCAACAAGGAGCACAAGG  250 CAGAGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGACAACATTGCAGC  291 TCATTTGAAAGACGCCTATAC  291 TCATTTGAATGAGGAGCACTAAC  292 GACGTACCGGAAAGAGGAGCACTAAC  293 ATGCGAGCAATGGGATCCGGATTC  30 294 AGAGTGAGGACCAGAGG  295 CGCACCGTAACTAGATTTGCCGC  296 AGGGTATCGGAGCCCAGGGCTTACC  297 TGAACCTTTGAGCACCAGTG  298 TCCGCCTTTTTGGTTACCTCGAAG  300 CCGACAGCAGCACAAGACGTCCCAG  301 TTGTACACCTGGGCCACAGG  302 CATAAAAAAAACCTGGGGCTCCCGG  303 TGCCAACTGTGCAGACCAGCG  40 304 GGCGAAAGAGCGCAACACG  305 GGGATGCGTATTTTAGCCAACACGC  40 304 GGCGAAAGAGCGCAACACGG  305 GGGATGCGTATTTTAACCCAACCGC  40 304 GGCGAAAGAGCGCAACACGGCTCGTCCCCCCCCCCCCCC		275	CCCTGTTAACGGCTGCGTAGTCTC
278   GGGTGGACATCCGCCTCGCAGTCA		276	AGGCCGATTTCACCCGCCAATTGC
15   279   GATGGCTGAGAACCGTGCTACGAT   280   TCGACGTTAGGAGTGCTGCAGAA   281   CGAATGGGTCTGGACCTTGCATAG   282   GTGCACCAGAACATTCGAACTCGGA   283   AGAGGCCCCGTATATCCCATCCAT   284   AACGCCTGTTCAGAGCATCAGCGG   285   AAGGCTCAACACGCCTATGTGCGC   286   AGTCCGTGTTGCAGAGCATCAGCGG   287   ATGTCCCATGAACACGCCTATGTGCGC   288   ATGGAGTCTGCTCACGCCAAAGG   289   CGGCCTCCAACAAGGAGCACTAAC   290   CAGAGCCGTGGCAACATTGCGAGC   291   TCATTTGAATGAGGTGCGCACCGG   292   GACGTACCGGAACGCCGTATAAA   293   ATGCGAGCATTGCGAGCCCGATTC   294   AGAGTGAGGCCTCCCTGACCAGTG   295   CGCACCGTAAGAGAGCCCCGCCCCGC   296   AGGGTATCGGAGCCTCCCTGACCAGTG   297   TGAACCTTTGAGCACGTCCCCC   298   TCCGCCTTTTTGGTTACCTCGAAG   299   GAACGCCAACGGCACTAACACTC   297   TGACCTTTGAGCACGTCCCCAG   301   TTGTACACCTGGGCCACCACGC   301   TTGTACACCTGGGCCACCACGG   302   CATAAAAAAACCTGGGGCTCCTGCG   303   TGCCAACTGTGCAACACCGCTCGTCCCCCCCCCCCCCCC		277	GAGCCCTCACTCCTTGCCCTTTGA
280 TCGACGTTAGGAGTGCTGCCAGAA  281 CGAATGGGTCTGGACCTTGCATAG  282 GTGCACCAGACATTCGAACTCGGA  283 AGAGGCCCCGTATATCCCATCCAT  284 AACGCCTGTTCAGAGCATCAGCGG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCAGAGTTGGCTCG  287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCCGGATTC  30 294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCGC  296 AGGGTATCGGAGCCAGGGCTTACC  297 TGAACCTTTGAGCACGTCGGAGC  30 CCGACAGCAGCACTACCCGGAGG  31 TTGTACACCTGGGCCACCAGG  301 TTGTACACCTGGGCCACCAGG  302 CATAAAAAAACCTGGGGCTCTCCG  303 TGCCAACTGTGCAACACCGC  40 304 GGCGAAAGAGCGAACCCGGTCCT  305 GGGATGCGTATTTTAGCCAACACCG		278	GGGTGGACATCCGCCTCGCAGTCA
281 CGAATGGGTCTGGACCTTGCATAG  282 GTGCACCAGACATTCGAACTCGAA  283 AGAGGCCCCGTATATCCCATCCAT  284 AACGCCTGTTCAGAGCATCAGCGG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCCAGATTGGCTCG  287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCTGG  292 GACGTACCGGAAGCCCGTATAAA  293 ATGCGAGCAATGGGATCCGGATTC  30 294 AGAGTGAGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCCC  296 AGGGTATCGGAGCCTTACC  297 TGAACCTTTGAGCACGTCGTCCCC  298 TCCGCCTTTTTGGTTACCTCGAAG  30 CCGACAGCAACGGCACTACACATC  30 CCGACAGCAACGGCACTAACACATC  30 CCGACAGCAACGGCACTAACACATC  30 CCGACAGCAACGGCACCACGG  301 TTGTACACCTGGGCCACCAGG  302 CATAAAAAAACCTGGGGCTCTCCC  303 TGCCAACTGTCCAGACCAGCTTAA  40 GGCGAAAGACGCGAACCGGCTCGT  304 GGCGAAAGACCGAACCGGCTCGT  305 GGGATGCGTATTTTAGCCAACACCG	15	279	GATGGCTGAGAACCGTGCTACGAT
282 GTGCACCAGACATTCGAACTCGGA 283 AGAGGCCCCGTATATCCCAT 284 AACGCCTGTTCAGAGCATCAGCGG 285 AAGGCTCAACACGCCTATGTGCGC 286 AGTCCGTGTTGCCAGATTGGCTCG 287 ATGTCCCATGTAAAGACGCGTGTG 288 ATGGAGTCTGCTCACAGCCCAAAGG 289 CGGCCTCCAACAAGGAGCACTAAC 290 CAGAGCCGTGGCAACATTGCGAGC 291 TCATTTGAATGAGGTCGGCACCGG 292 GACGTACCGGAACATTGCGAGC 293 ATGCGAGCAATGGGATCCGGATTC 30 294 AGAGTGAGCACTCGCCCAACGTG 295 CGCACCGTAAGATTTGCCCGC 296 AGGGTATCGAGCCCTTACC 297 TGAACCTTTGAGCACGTCGTACC 298 TCCGCCTTTTTGGTACCTCGAAG 301 CCGACAGCAACGGCCATACAA 302 CATAAAAAAACCTGGGGCTCCCGG 303 TGCCAACTGTGCAGCCAGGC 304 GGCGAAAGAGCGAACCGGCTTACC 305 GGGATGCGTATTTTAGCCAACCATC		280	TCGACGTTAGGAGTGCTGCCAGAA
283 AGAGGCCCCGTATATCCCATCAT  284 AACGCCTGTTCAGAGCATCAGCGG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCCAGATTGGCTCG  287 ATGTCCCATGTAAAGACGCGTTGG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCCGGATTC  30 294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCGC  296 AGGGTATCGGAGCCAGGGCTTACC  297 TGAACCTTTGAGCACGTGGCC  298 TCCGCCTTTTTTGGTTACCTCGAAG  301 TTGTACACCTGGGCCACCAGG  302 CATAAAAAAACCTGGGGCTCCCGG  303 TGCCAACTGTGCAGCCAGGCTTA  40 304 GGCGAAAGAGCGAACCGGCTCGT  305 GGGATGCGTATTTTAGCGAACACCG		281	CGAATGGGTCTGGACCTTGCATAG
284 AACGCCTGTTCAGAGCATCAGCGG  285 AAGGCTCAACACGCCTATGTGCGC  286 AGTCCGTGTTGCCAGATTGGCTCG  287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCCGGATTC  30 294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCGC  296 AGGGTATCGGAGCCAGGGCTTACC  297 TGAACCTTTGAGCACGTCGTGCC  298 TCCGCCTTTTTTGGTTACCTCGAAG  301 TTGTACACCTGGGCCACCAGG  302 CATAAAAAAACCTGGGGCTCCCAG  303 TGCCAACTGTGCAGACCGGACTTA  40 304 GGCGAAAGAGCGAACCGGCTCGT  305 GGGATGCGTATTTTAGCCAACACCG  305 GGGATGCGTATTTTAGCCAACACCG	ĺ	282	GTGCACCAGACATTCGAACTCGGA
285		283	AGAGGCCCGTATATCCCATCCAT
286 AGTCCGTGTTGCCAGATTGGCTCG  287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCC  294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCGC  296 AGGGTATCGGAGCCAGGGCTTACC  297 TGAACCTTTGAGCACGTCGTGCGC  298 TCCGCCTTTTTGGTTACCTCGAAG  300 CCGACAGCAACGCCACAGACGTCCCAG  301 TTGTACACCTGGGCCACCACGG  302 CATAAAAAAACCTGGGGCTCTGCG  303 TGCCAACTGTGCAGACCGCACTAA  40 304 GGCGAAAGACGCAACACCG  305 GGGATGCGTATTTTAGCCAACACCG	20	284	AACGCCTGTTCAGAGCATCAGCGG
287 ATGTCCCATGTAAAGACGCGTGTG  288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCC  30 294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGTAGATTTGCCCGC  296 AGGGTATCGGAGCCACGGGCTTACC  297 TGAACCTTTGAGCACGTCGTGCGC  298 TCCGCCTTTTTGGTTACCTCGAAG  35 299 GAACGCCAACGGCACTAACACATC  300 CCGACAGCAGCCAAGACGTCCCAG  301 TTGTACACCTGGGCCACGACAGG  302 CATAAAAAAACCTGGGGCTCTGCG  303 TGCCAACTGTGCAGACCGGCTCTAC  40 304 GGCGAAAGAGCGAAACCGGCTCGT  305 GGGATGCGTATTTTAGCGAACACCG		285	AAGGCTCAACACGCCTATGTGCGC
288 ATGGAGTCTGCTCACGCCCAAAGG  289 CGGCCTCCAACAAGGAGCACTAAC  290 CAGAGCCGTGGCAACATTGCGAGC  291 TCATTTGAATGAGGTGCGCACCGG  292 GACGTACCGGAAGCGCCGTATAAA  293 ATGCGAGCAATGGGATCCGGATTC  294 AGAGTGAGGCCTCCCTGACCAGTG  295 CGCACCGTAAGATAGATTTGCCCGC  296 AGGGTATCGGAGCCAGGGCTTACC  297 TGAACCTTTGAGCACGTCGTGCC  298 TCCGCCTTTTTGGTTACCTCGAAG  300 CCGACAGCAGCCAAGACGTCCCAG  301 TTGTACACCTGGGCCACGACAGG  302 CATAAAAAAACCTGGGGCTCTGCG  303 TGCCAACTGTGCAGACCGGACTTA  40 304 GGCGAAAGAGCGAACACG  305 GGGATGCGTATTTTAGCGAACACG		286	AGTCCGTGTTGCCAGATTGGCTCG
25		287	ATGTCCCATGTAAAGACGCGTGTG
290   CAGAGCCGTGGCAACATTGCGAGC		288	ATGGAGTCTGCTCACGCCCAAAGG
291   TCATTTGAATGAGGTGCGCACCGG     292   GACGTACCGGAAGCGCCGTATAAA     293   ATGCGAGCAATGGGATCCGGATTC     304   AGAGTGAGGCCTCCCTGACCAGTG     295   CGCACCGTAAGTAGATTTGCCCGC     296   AGGGTATCGGAGCCAGGGCTTACC     297   TGAACCTTTGAGCACGTCGTGCGC     298   TCCGCCTTTTTGGTTACCTCGAAG     309   GAACGCCAACGGCACTAACACATC     300   CCGACAGCAGCCAAGACGTCCCAG     301   TTGTACACCTGGGCCACGCACAGG     302   CATAAAAAAACCTGGGGCTCTGCG     303   TGCCAACTGTCAGACCGGACTTA     40   304   GGCGAAAGAGCGAAACCGGCTCGT     305   GGGATGCGTATTTTAGCGAACACCG	25	289	CGGCCTCCAACAAGGAGCACTAAC
292   GACGTACCGGAAGCGCCGTATAAA   293   ATGCGAGCAATGGGATCCGGATTC   304   AGAGTGAGGCCTCCCTGACCAGTG   295   CGCACCGTAAGTAGATTTGCCCGC   296   AGGGTATCGGAGCCAGGGCTTACC   297   TGAACCTTTGAGCACGTCGTGCGC   298   TCCGCCTTTTTGGTTACCTCGAAG   299   GAACGCCAACGGCACTAACACATC   300   CCGACAGCAGCACGCACAGG   301   TTGTACACCTGGGCCACGACAGG   302   CATAAAAAAACCTGGGGCTCTGCG   303   TGCCAACTGTGCAGACCGACTTA   304   GGCGAAAGAGCGAACCGGCTCGT   305   GGGATGCGTATTTTAGCGAACACG		290	CAGAGCCGTGGCAACATTGCGAGC
293   ATGCGAGCAATGGGATCCGGATTC		291	TCATTTGAATGAGGTGCGCACCGG
294 AGAGTGAGGCCTCCCTGACCAGTG 295 CGCACCGTAAGTAGATTTGCCCGC 296 AGGGTATCGGAGCCAGGGCTTACC 297 TGAACCTTTGAGCACGTCGTGCGC 298 TCCGCCTTTTTGGTTACCTCGAAG 35 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGCACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		292	GACGTACCGGAAGCGCCGTATAAA
295 CGCACCGTAAGTAGATTTGCCCGC 296 AGGGTATCGGAGCCAGGGCTTACC 297 TGAACCTTTGAGCACGTCGTGCGC 298 TCCGCCTTTTTGGTTACCTCGAAG 35 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		293	ATGCGAGCAATGGGATCCGGATTC
296 AGGGTATCGGAGCCAGGGCTTACC 297 TGAACCTTTGAGCACGTCGTGCGC 298 TCCGCCTTTTTGGTTACCTCGAAG 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG	30	294	AGAGTGAGGCCTCCCTGACCAGTG
297 TGAACCTTTGAGCACGTCGTGCGC 298 TCCGCCTTTTTGGTTACCTCGAAG 35 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGCACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG	!	295	CGCACCGTAAGTAGATTTGCCCGC
298 TCCGCCTTTTTGGTTACCTCGAAG 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		296	AGGGTATCGGAGCCAGGGCTTACC
35 299 GAACGCCAACGGCACTAACACATC 300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGCACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		297	TGAACCTTTGAGCACGTCGTGCGC
300 CCGACAGCAGCCAAGACGTCCCAG 301 TTGTACACCTGGGCCACGCACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		298	TCCGCCTTTTTGGTTACCTCGAAG
301 TTGTACACCTGGGCCACGCACAGG 302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG	35	299	GAACGCCAACGGCACTAACACATC
302 CATAAAAAAACCTGGGGCTCTGCG 303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		300	
303 TGCCAACTGTGCAGACCGGACTTA 40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		301	TTGTACACCTGGGCCACGCACAGG
40 304 GGCGAAAGAGCGAAACCGGCTCGT 305 GGGATGCGTATTTTAGCGAACACG		302	
305 GGGATGCGTATTTTAGCGAACACG		303	
	40	304	GGCGAAAGAGCGAAACCGGCTCGT
306 TGGGATTCAGCGACCAGTACGCGA		305	GGGATGCGTATTTTAGCGAACACG
		306	TGGGATTCAGCGACCAGTACGCGA

	307	CCCGATATTCGCCCGGCCTATTCG
	308	CGAGAAGATGCCTCACGCAACCAA
	309	AACCTTGACCCGTGGATGACGCTA
Ī	310	GGCTAGACGATGGATACCCGTGCC
5	311	GCCTCTTCTCGACGATGCGATTTT
	312	GCTTCCGGATGAACGGGATGGTTG
Ī	313	CCCTCCATGTTCTTCGAACGGTTT
<u> </u>	314	TTGATGGGCGGCAATGCTCTTGCT
	315	ATTGTGAGATGCGCCAAATTCCCC
10	316	TCAGCACAGCCAGACGGTCAACTT
	317	ACTCCACTCCTCGGTGGCAAACTA
	318	TCTGGGCATGCCTGGACGGAGACG
	319	TCTCAACTCCGGTACGACGAAACA
	320	TTGCGTGGTCAAAGGCGCAACGTG
15	321	AGACAGCGATCCGCGGCTCATGAT
	322	CGCGTCTCTAACTGAGAGCAGCCA
	323	AGGCGCACATGTACGGACATTCAG
	324	GATGAGTGGCACGTCGGTGTGTAA
	325	TGATCCATATTGTCGGACGTTGCG
20	326	ACCTGCCGGGAGTTCATAGGCTAG
	327	AGCATTGGCGTTTTTCCGCAACGA
	328	GGTAATATTCAGCGCGACCGCTCA
	329	ATAGCGTACGACGAGGTGACGCGC
	330	GGGTGAGGGAAAGAGCACCTGCCT
25	331	TAGGTCACGATGCGTTTGACGCTA
	332	ACTGCCCGTACCTCTGGTTCTGGC
	333	CAAAAATCGGGTGAACATTGGCTG
	334	CCTTTGGCCTGAAGTTGTCGTAGC
	335	GTGCCCACGAGCGTATCGTTGTA
30	336	AGGCGCTACGTGGGCCTGGAGCAA
	337	GGGTGCTACCATTGCATTAGTCCG
	338	ACCACGCGCGTACGTGTAACCGAG
	339	CCATGATGCATTGGGTGCATTTAG
	340	GGTCCGGCCCTACGAAACGTTCGA
35	341	CCGTGTGGCTGGAGATTCGTGTGA
	342	GTTAGGGCGACGCATATTGGCACA
	343	GGGTCAGTCAGGTGCGTTAGGATC
	344	GCCGTGAAGTCGAATGCAGATCGA
	345	GCCACCACCAGTGCATTCAGGTA
40	346	GAGCTTAGTTTGCGGTCATCGGGC
	347	TGTTTGCCGCCATTAGGGAGTAAC
	348	GCTCCGCTGGATGTGCCGGTTTAG

	349	CGGTAGCATGCGAGATCCCTGTTA
	350	CTACGCTCTACCAGTTGCCTGCGA
	351	GTGCCTCCTGCTGTATTTGCCAAG
	352	TTGCGACTCGACTTGGACGAGTAG
5	353	TCTGGGAGCTGTTTACTCCAGCCA
	354	TGCACGCGAACTCCCTTTACCAT
	355	TGGCAGCAAATGAATCGAAAGCAC
	356	AACTGGTGACGCGGTACAGCGAAG
	357	AGACGATTACGCTGGACGCCGTCG
10	358	ATGCCCTCCTTCATGGAAAGGGTT
	359	ATTCTCGGAGCGTATGCGCCAGAA
	360	ATAGCGGAGTTTGGGTACGCGAAC
	361	ACCTACGCATACCGCTTGGCGAGG
	362	GATTACCTGAATGGCCAAGCGAGC
15	363	CCTGTTAGCATCACGGCGCTTAGG
	364	CGGAATGATGCGCTCGACAACGCT
	365	TGAGAGAGGCGTTGGTTAAGGCAA
	366	AAGCAGGCGAAGGGATACTCCTCG
	367	TCACGACAGACGGGCCGAGATTAC
20	368	AAGCAATTTGGCCTCGTTTTGTGA
	369	GCTGGTTGCGGTAGGATCGCATAT
	370	TTGTGAATCCGTTCTGTCCCCGAC
	371	CTCCGATGACAATTGTGGAGAGCA
	372	TGGGCTCCTCTGAGGCGAGATGGC
25	373	GGATAGAGTGAATCGACCGGCAAC
	374	TGCACCGAACGTGCACGAGTAATT
	375	GCCAGTATTCTCGGGTGTTGGACG
•	376	TCGCTACCTAAGACCGGGCCATAC
	377	TGGCATTGACGAGCAGCAGTCAGT
30	378	CGCGTCCCAGCGCCCTTGGAGTAT
	379	ATGAAGCCTACCGGGCGACTTCGT
	380	CCAGACAGATGGCCTGGAACCATG
	381	TGGCGTGGGACCATCTCAAAGCTA
	382	CCGCATGGGAACACGTGTCAAGGT
35	383	GCCCACTCGTCAGCTGGACGTAAT
	384	ATTACGGTCGTGATCCAGAAAGCG
	385	TGCGAGGTGAGCACCTACGAGAGA
	. 386	GGGCCGCATTCTTGATGTCCATTC
	387	CCTCGGATGTGGGCTCTCGCCTAG
40	388	TAGGCATGTTGGCGTGAGCGCTAT
	389	CGATACGAACGAGGATGTCCGCCT
	390	TACGCCGGTTAGCACGGTGCGCTA

-52-

	391	CATACGATGTCCGGGCCGTGTCGC
Γ	392	ATCCGCAGTTGTATGGCGCGTTAT
Ī	393	GGGTAAGGGACAAAGATGGGATGG
Ī	394	ATTGGAGTGTTTTGGTGAATCCGC
5	395	GAACCGAGCCAACGTATGGACACG
· [	396	GCCGTCAAGCTTAAGGTTTTGGGC
	397	ACCTGCTTTTGGGTGGGTGATATG
	398	AATCGTGGGCGCAGCAAACGTATA
<u> </u>	399	GTCGCCGGATTGCTCAGTATAAGC
10	400	ACCCGTCGATGCTTCCTCCTCAGA
	401	ATCCGGGTGGGCGATACAAGAGAT
	402	TTCCGCATGAGTCAGCTTTGAAAA
	403	GCAAAGTCCCACTGGCAAGCCGAT
	404	CGACCTCGGCTTCATCGTACACAT
15	405	CTCATGAGCGCAGTTGTGCGTGAG
	406	CAGATGAAGGATCCACGGCCGGAG
	407	TCAAAGGCTCTTGGATACAGCCGT
	408	TCCGCTAATTTCCAATCAGGGCTC
	409	ACGCACGCCCTTTTGCCTTAATG
20	410	TGACAACGTCACAAGGAGCAGGAC
	411	CTTAGTTGGGGCGCGGTATCCAGA
	412	GCTCTAATGCCGTGGAGTCGGAAC
·	413	CCGATTACAAATTGACTGACCGCA
	414	AGACGTACGTGAGCCTCCCGTGTC
25	415	AATGGAGCGATACGATCCAACGCA
	416	GGAGGCGCTGTACTGATAGGCGTA
	417	TGTTTTGAATTGACCACACGGGA
	418	CATGTCTGGATGCGCTCAATGAAG
	419	GCCCGCTAATCCGACACCCAGTTT
30	420	CCATTGACAGGAGAGCCATGAGCC
	421	GAATCACCGAATCACCGACTCGTT
	422	AACCAGCCGCAGTAGCTTACGTCG
	423	TTTTCTGAGGGACACGCGGGCGTT
	424	GGTGCTCCGTTTGATCGATCCTCC
35	425	CCGCTTAGGCCATACTCTGAGCCA
	426	TAAGACATACCGACGCCCTTGCCT
	427	GTTCCCGACGCCAGTCATTGAGAC
	428	TAAAAGTTTCGCGGAGGTCGGGCT
	429	CGGTCCAGACGAGCTGAGTTCGGC
40	430	CGGCGTAGCGGCTACGGACTTAAA
	431	GCTTGGATGCCCATGCGGCAAGGT
	432	AGCGGGATCCCAGAGTTTCGAAAA

	433	GAGCTTGAGAGCGAGGTCATCCTC
	434	GCATCGGCCGTTTTGACCATATTC
	435	CATAGCGCTGCACGTTTCGACCGC
	436	ACCCGACAACCACCAATTCAAAAA
5	437	GCGAACACTCATAAGAGCGCCCTG
	438	TTTTGGTGTGGCCGGTTGAAGCTC
	439	CCGCCGAGTGTAGAGAGACTCCGA
	440	GACATCGGGAGCCGGAAACATGAG
	441	TCGTGTAGACTCGGCGACAGGCGT
10	442	ATGCGCATATACTGACTGCGCAGG
	443	ACAAGCGAACCCGAGTTTTGATGA
	444	GCATGAGACTCCGCGAAGACATGT
	445	TCCTACATGTCGCGTCACGATCAC
	446	GACCGATCGCGAAGTCGTACACAT
15	447	GTCGCCAGGACTGGGCCGATGTGA
	448	ACCGATAAGACTTGCATCCGAACG
	449	TCCATAACCAGTCCGAAGTGCCGG
	450	ACGCGCCCTGCATCTCGTATTTAA
	451	AGACCGCATCAATTGGCGCGTACC
20	452	AGAGGCTTGGCAAGTAGGGACCCT
	453	GCAATGGACGCCAGACGATACCGG
	454	GCTGGACTTAGTCGTGTTCGGCGG
	455	GGGGCTCATGAACGAAAGGCCTTT
	456	AGGCATCGTGCCGGATTGCTCCCT
25	457	TGCGCATGTCGACGTTGAACAAG
	458	ATTGCATTATGCGGTCCCTCAAAC
	459	TTCGGGTCACATCCGATGCCATAC
	460	ACCCATCGCCGGAAAGCGATGTTG
	461	AAGCGCTGACTCGGCTAAGAATCA
30	462	ACTTCCAAGTCCTTGACCGTCCGA
	463	TCTCAATATTCCCGTAGTCGCCCA
	464	AACAGTTCCTCTTTTTCCTGGCGC
	465	CGTCCTCCATGTTGTCACGAACAG
	466	TGCGCAGACCTACCTGTCTTTGCT
35	467	ATGGACGCTTCGCAGTCCTCCTT
•	468	TGAACGCTITCTATGGGCCACGTA
	469	TGAACCCTGCCGCGAGCGATAACC
	470	GTTCTTGCGCGATGAATCAGGACC
	471	AGGGTACGTGTCGCAGCTTCGCGT
40	472	ACCCTTGCTCCGCCATGTCTCTCA
	473	GGGACAAGGATTGAAGCTGGCGTC
	474	TGTCGTTGCTCCGAGTACCATTG

	475	GTGGTTATCTGCGAGGGCTTTTGA
	476	GTTGTCCGAGACGTTTGTGTCAGC
	477	GCTGGTGAACACTCACGAACCGCT
	478	GCAGACAGGGCAAATCGGTGCAAA
	479	CCCATCACAACGAGTGGCGACTTT
	480	GCTTCTACAGCTGGCGTGCTAGCG
	481	GAATGTGTGCCGACCATTCTAGCC
	482	CCAGCGGAAGTTAGAGCTCTGTGG
	483	TTTTTACCGACCACTCCATGTCGG
1	484	GCGGCTATGTGATGACGGCCTAGC
	485	AGTACACGGGCGTGTTAGCGCTCC
	486	TCCTGTGTGGTGGCGCACTCCCAC
	487	CCAACTAACCAATCGCGCGGATGA
	488	AGTGAGTGACCAAGGCAGGAGCAA
5	489	CATCTTTCGCGGAGTTTATTGCGG
	490	CTTCGTCCGGTTAGTGCGACAGCA
	491	CTCACGAAAACGTGGGCCCGAAAT
	492	CGCAGCAGCTGAACTCTAGCATTG
	493	AGGAGACATACGCCCAAATGGTGC
0	494	ATTGAGAACTCGTGCGGGAGTTTG
	495	CTCTTTGTAGGCCCAGGAGGAGCA
	496	GCCGCAGGGTCGATAATTGGTCTA
	497	AAACGCCGCCCTGAGACTATTGGG
	498	CTGAGTTGCCTGGAACGTTGGACT
<b>!</b> 5	499	CGGATGGGTTGCAGAGTATGGGAT
	500	CTGACCTTTGGGGGTTAGTGCGGT
	501	GGAAATGAGAACCTTACCCCAGCG
	502	AACGCATCGTCCGTCAACTCATCA
	503	TGGAGAGACTTCGGCCATTGTT
30	504	ACGGAAGTCACGGCGTCGCTCGAA
	505	TTGCGCTCATTGGATCTTGTCAGG
·	506	AGCGCGTTAAAGCACGGCAACATT
	507	AGCCAGTAAACTGTGGGCGGCTGT
	508	CGACTGATGTGCAACCAGCAGCTG
35	509	GGTTGCTCATACGACGAGCGAGTG
	510	GCGCAAATCCACGGAACCCGTACC
	511	ACGCAGTTTATTCCCCTGGCTTCT
	512	AGAACCTCCGCGCCTCCGTAGTAG
	513	AAAGGAGCTTTCGCCCAACGTACC
40	514	AGTGATTGTGCCACTCCACAGCTC
	515	GCGATCGTCGAGGGTTGAGCTGAA
	516	GGGAGACAGCCATTATGGTCCTCG

)

5

:O ·

25

30

35

40

517	GAGACGCTGTCACTCCGGCAGAAC
518	CCACCGGTCGCTTAAGATGCACTT
519	CGGCATAACGTCCAGTCCTGGGAC
520	AAGCGGAACGGGTTATACCGAGGT
521	TGCACACTAGGTCCGTCGCTTGAT
522	AGGGAACCGCGTTCAAACTCAGTT
523	GAATTACAACCACCGCTCGTGTT
524	TTCAGTGCTCACGAAGCATGGATT
525	TTAGTTTGGCGTTGGGACTTCACC
526	AATGCGACCTCGACGAGCCTCATA
527	CCGAAACCGTTAACGTGGCGCACA
528	TAAAGTAACAAGGCGACCTCCCGC
529	TAATGATTTTAGTCGCGGGGTGGG
530	GGCTACTCTAAGTGCCCGCTCAGG
531	TGGCGGACGACTCAATATCTCACG
532	GGGCGTTAGGCGTAATAGACCGTC
533	GCCACCTTTAGACGGCGGCTCTAG
534	GAGATGTGTAAACGTGCAGGCACC
535	CAACCTCGTTGTCGAGTTTCTCGG
536	TAGCTCGTGGCCCTCCAAGCGTGT
537	GTGTCGGCGCTATTTGGCCTTACC
538	CCAGGGAAGCAACTGGTTGCCATT
539	TTCCGAAACTAAGCCAGAACCGCT
540	GCAAACCCGGTAACCCGAGAGTTC
541	GCAAATGGCGTCATGCACGAACGT
542	AGTACTTTCGCGCCCAGTTTAGGG
543	AAGATCTGCGAGGCATCCCGGCTT
544	GCAAGTGTATCGCACAGTGCGATT
545	CCGACAAGGCCTCAATTCATTCTG
546	GTCTCGTCTCAACTTTAAGGCGCG
547	ATCCAGAGATCCGTTTTGCAGCGT
548	GTCACCAGGAGGGAAGTTTCACCC
549	TATCTTACGCCCCACGGTCGAGCT
550	TTCCGTCAGGCGGATCAACGGAAT
551	ATGCCGGACACGCATTACACAGGC
552	TGGGCCGCTTGGCGCTTTCATAGA
553	CCTAGCGCGAGCTTTACTGACCAG
554	TTGGCCAGGAATATGGTCTCGAGA
555	GTCTGCGGCCGACTTGCTATGCAT
556	AACTTGCTCATTCTCAAGCCGACG
557	ACGTCAGCGATTGTGGCGAAATAT
558	ACGGCCTGCGTCAGCACATGCATC

559	ATACCTCCGCAGAACCATTUUGTT
560	AGTTCGCGGTCCCACGATTCACTT
561	TGCTCAATTTGTGCAGAAAACGCC
562	TTATCGCGAGAGACGACCGTGTCC
563	GACGCGACGTGAGTAGTGGAAGCG
564	ATGGTAGGGCATTGGGCTTTCCT
565	CCAAATATAGCCGCGCGGAGAÇAT
566	GCAAACCCTGATTGAATCGTGCCC
567	TAGCGTCTTGCGTGAAACCATGGG
568	CCACCCGACAGCGCTGGACTCTT
569	ACGAGCACTGAAGGCTGCTTTACG
570	CATATCAGCGTCGTCTAGCTCGCG
571	TGATCCCGGACCGGCTAGACTAAT
572	GGCCCGACACTACAGGGTAATCA
573	GGCTCCAGGGCGAGATTATGAATG
574	CAAAATCCGATGGGCGGAAAATTA
575	CACAGGCGCATAGGGAGCAAGCTA
576	TAGCTATTGCCCCGATGGGCTACT
577	TGGTACGCGGTCCATAGCAAGTCG
578	GACGCTGTGGCTCGGAAACTGTTC
579	CCTGGGTTCGCCGCGTGGTAACTG
580	TTCCCGCGTAGCCCAACAGCTATA
581	TTCGCGGATTGCTGCCGCATAACA
582	AAAAATGGCACCGAAGTTGAGGCA
583	CATTCCGCGCGAGTTGAAATCCAG
584	ACGCACGTTTTTTGGCACGGTTAA
<b>58</b> 5	TGTCCATGACGTCGTTTCTCTGGT
586	TCTCAGTCGGACTCGTATGCCAGA
587	CTCCAAACGCACACATCAAGCATC
588	TTCAACCAAGCGGGGTGTTCGTGA
589	GGTGTCGGAGGGTGGTGACCTCGA
590	AGCGCTTTTGGTCATGATTTGCAA
591	CCGAGGACTTACGTCTGCCCAGGA
592	GCCCAATCCAGTTCTTATGCGCCC
593	AAGCTTTGCGAAAGGTGTGTTGGC
594	CGGGTTAACCCACGCAAGTTATGA
595	TGATTAGCGCTCAATACACGCGTG
596	AAGGGCAGACCTTTGGTTCGACTG
597	GCGCCACAAGATTCACATGTCATT
598	GCCATGTTCAAGGGCCTTTCGAAG
599	CGCGGTGTTTTGTCTAGGTGCCGG
600	CAACATTGTGGTGGCACTCCATCC

40

5

0

<u>?</u>5

30

35

1		
	601	CGATACGCGCCGGTTTGTTAAATC
	602	GGCTATAAACGTGCGGACTGCTCC
	603	TGGGTAAATCACTATTGCGCGGTT
	604	GTCTTCATCGGCCCGCGCAAGCTA
5	605	GCGACACCCTGTACTCTGATGC
	606	GTAGCAGGGTCCGCAAGACCAAGC
	607	TCGCCAACGCAGGGTAACTGCCAT
	608	ACTCCGAAGCTTCGAGCGGCACGA
	609	TCCCGCCCACTAGACTGACTCGTA
0	610	ACCTTCTGGGGTCGCTCACCAATA
	611	ATCATCCCACGGCAGAGTGAAGAG
	612	CGCTGGACTGGCCTATCCGAGTCG
	613	CGGTCTCAGCAACACTGTCGCAAA
	614	CGAACGTTCTCCGATGTAATGGCC
15	615	ATACCGTGCGACAAGCCCCTCTGA
	616	AGCTCATTCCCGAGACGGAACACC
	617	TTTCATGCGGCCGTTGCAAATCAT
	618	ACTCGAACGGACGTTCAATTCCCA
	619	CTGCATGGTGGGTGAGACTCCC
20	620	CCGCGAGTGTGGATGGCGTGTTGA
	621	AATGTGTCGGTCCTAAGCCGGGTG
	622	TAAGACGAGCCTGCACAGCTTGCG
	623	GGCGTGGGAGGATAAGACGATGTC
	624	TGCTCCATGTTAGGAACGCACCAC
25	625	CGGTGTTGGTCGGACTGACGACTG
	626	CCGCGCGTATCTATCAGATCTGGG
	627 .	AAAGCATGCTCCACCTGGAGCGAG
	628	ACTTGCATCGCTGGGTAGATCCGG
ŕ	629	TGCTTACGCAGTGGATTGGTCAGA
30	630	ATGCAGATGAACAAATCGCCGAAT
	631	GCAATTCTGGGCCATGTATTCGTC
	632	AGGGTTCCTTACGCGTCGACATGG
	633	GTGGAGCTAATCGCGAGCCTCAGA
	634	TCGTAGTCTCACCGGCAATGATCC
35	635	TTATAGCAGTGCGCCAATGCTTCG
	636	CGAACAGTGCTGTCCGTCGCTCAA
	637	TCCGCGTGGACTGTTAGACGCTAT
	638	CATTAGCCCGCTGTCGGTAACTGT
	639	GGAAAGAAACTCAGACGCGCAATG
40	640	CGACTCGCTGGACAGGAGAATCGT
	641	CATGATCCTCTGTTTCACCCGCGG
	642	GGCGTAGCGCTCTAAAAGCTTCGG

	643	AGTGATGCCATCAGGCCCGTATAC
	644	TATGGAAAGGGCAACAGCGCTATC
	645	CTGTGGTTGATGGAGGATCCACAC
	646	ACTCGCTGGAATTTGCGCTGACAC
5	647	CAGGCCCGAACCACGCGGTTACAG
	648	GGCGCAATGGGCGCATAAATACTA
	649	GGTCAATTCGCGCTACATGCCCTA
	650	TGAGGGCTGTTTGGTATTTGACCC
	651	GATGGTGGACTGGAGCCCTTCCGC
10	652	CCGCGCATAGCGCAATAGGGGAGA
	653	TCTTCTGGCTGTCCGGCACCCGAA
	654	GCGTTCGCAATTCACGGGCCCTTA
	655	TCGTTTCGGCCTTGGAGAGTATCG
	656	AGGTGCAAGTGCAAGGCGAGAGGC
15	657	CGCCAGTTTCGATGGCTGACGTTT
	658	GCTTTACCGCCGATCCCAGATATC
	659	GTGCTTGACGAAGAGGCGAAATGT
	660	CAGTCCGTGCGCTTCATGTCCTCA ·
	661	TACGCGTAAGAGCCTACCCTCGCG
20	662	GGCGAGTCTTGTGGGGACATGTGT
	663	CCAAAGCGAGCGAGCGTGTCTAT
	664	GCCGTAGGTTGCTCTTCACCGAAC
ļ	665	AAATCCGCGATGTGCCGTGAGGCT
	666	GGCTTCGCACCCGTACCAATTTAG
25	667	TGTAGAGTCCCACGTAGCCGGCAT
	668	CACTAGTCTGGGGCAAGGTGCATT
	669	TGTACTCGGCAGGCGCAATAGATT
	670	AACGGGTATCGGAAGCGTAAAAGC
	671	CGGACTGCCCGTTTGCAAGTTGAG
30	672	ATCGTTCAGCACTGGAGCCCGTAA
	673	ATGCATCGAACTAGTCGTGACGGC
	674	TTCCAGGCATTAAGGAGAGGGAGC
	675	GTGCGACATCTACTCCACGATCCC
	676	CTCATCGTCCTAACACGAGAGCCC
35	677	AATGGCACTTCGGCGGTGATGCAA
	678	CCGTGGGAGGGAATCCAACCGAGG
	679	AAATTCTCGTTGGTGACGGCTCAT
ŕ	680	TTGCTCTTATCCTTGTCCTGGGCG
	681	TTAAGGATCAGGCGGAGCTTGCAG
40	682	CGCGACTAAGGTGCTGCAACTCGA
	683	GCTCGATTTCACGGCCCGTTGTTC
	684	AGCAGAGTGCGTTGCAGAGGCTAA

	685	TGGAGGTGAGGACGTGCACTA
	686	AACCGTTTAGGGTACATTCGCGGT
	687	TATGATCGCTCGGCTCACAGTTTG
	688	GACTTTTTGCGGAAACGTCATGGT
5	689	TGTCGGTTATTCCACCTGCAAGGA
	690	CTATGGTTTGCACTGCGCCGTCGA
	691	AGCAGGGAAATTCAATCGTTCGCA
	692	CCTAACCGAGCGCTTAGCATTTCC
	693	CCCGACCCTAACTCGCATTGAATA
0	- 694	TTGCTTAATGGTGACGCCACGGAT
	695	GATGCTCGCCGTGTTTAGTTCACG
	696	TCGGATGACGAGTTTCCATGACGG
	697	ATGCGGTCTACTTTCTCGATCGGG
	698	TTGCGAGGCTAAGCACACGGTAAA
5	699	AACTTAATTACCGCCTCTGGCGCC
	700	GTGACCGCGAACTTGTTCCGACAG
	701	TGCGGATTACCGATTCGCTCTTAA
	702	TGATAGGGGCCACGTTGATCAGA
	703	TCGCTCCGTAGCGATTCATCGTAG
20	704	TGTCAGCTGGTAGCCTCCGTTTGA
	705	AGCGTCGCATGACGCTTACGGCAC
	706	TCACTCAGCGCTGTGACTGCCTGA
	707	GTTTGCGCTATAGTGGGGGACCGT
	708	GTCGCATTCTGCACTGGCTTCGCC
25	709	TGATTAGGTGCGGTCCCGTAGTCC
	710	AAGGGACCTTGGGTGACGGCGAGA
	711	TCAAATGGCCACCGCGTGTCATTC
	712	CTCCGACGACCAATAAATAGCCGC
	713	GGCTATTCCCGTAGAGAGCGTCCA
30	714	TGGATAACCTCTCGGTCCATCCAC
	715	GACCGCTGTACGGGAGTGTGCCTT
	716	GCCACAGAGTTTTAGCAGGGACCC
	717	CCCACGCTTTCCGACCACTGACCT
	718	CATTGACACAATGCGGGGACTGAT
35	719	AGCCACTCGACAGGGTTCCAAAGC
	720	CAGGATGAGCAAAGCGACTCTCCA
	721	CAAGGTATGGTCTGGGGCCTAAGC
	722	GGTGTTCGGCCTAAACTCTTTCGG
	723	TTTAGTCGGACCCTGTGGCAATTC
40	724	CACACGTTTCCGACCAGCCTGAAC
	725	CTGGACGAACTGGCTTCCTCGTAC
	726	TTCACAATCCGCCGAAAACTGACC

	727	AACAGGATATCCGCGATCACGACA
	728	TACGTCGGATCCATTGCGCCGAGT
	729	CATGGATCTCTCGGTTTGATCGCC
	730	AGCCAGGCGCGTATATACGCTCGG
5	731	ATTTGGCACGTGTCGTGCCATGTT
	732	CCGCGTTGCACCACTTTGAGGTGC
į	733	TTGGACGTGACAAGCATGGCGCTC
	734	CTGAATCGCGCAAGTAAATGGGGG
ļ	735	GATAAGGTCCACCAGATTGCGCGC
10	736	CTAACAATTGCCAACCGGGACGGC
(	737	GGTAACCTGGGTGCTTGCAGGTTA
	738	ATCGGAGCCACCATTCGCATTGGG
	739	GTGAACTGGCTTGCCCCAGGATTA
{	740	AGGCGATAGCATGGTCCCATATGA
15	741	AACGGTATCGTGGCTAATGCACGA
	742	AGTAGTGGTCCTCCAGATCGGCAA
	743	CCGTTGAATTGGACGGGAGGTTAG
	744	GCATAAGTGCGGCATCGCGAAGGG
	745	CGACAAGATGCAGCTGCTACATGC
20	746	TCGCAGTGATTCCCGACCGATAAG
	747	CAAGGCGAGTCCACTCGAGGGGAC
	748	GCAACTTGCACGGCATAAGTGGCC
	749	TCCGAGCTTGACGTTCGCGACGTC
	750	AGCGCTGGGCTGTGCCATCTC
25	751	TTCATGTCGCTGAGTAACCCTCGC
	752	CGAACCGCTAATGCCCATTGTCAG
	753	CACGGAAGGTGGGACAAATCGCCG
	754	CACAGATGGAGACAAACGCGCCTT
	755	TTTTCGCAACTCGCTCCATAACCC
30	756	ACGTTACGTTTCCGGCGCCTCTAA
	757	TATCGGATTGCGTGGGTTTCAATC
	758	CTTCCACAATTGTCTGCGACGCAC
	759	TGCACAAAGGTATGGCTGTCCGGC
	760	ACCGTGGCCGGGCCATAAGCTACG
35	761	TCCGATGCCAGTCCCATCTTAAGA
	762	CTGAAACCGTGCGAATCGAGGTGA
	763	CGGTGTTCCGCGTGTCGAAAAAAT
	764	TCTAGCAGGCCTTTTGAATCGCCA
1	765	GAGTCACCTCTGAGACGGACGCCA
40	766	TCTTCTGTCATCCTGCAGCAGCAT
	767	GCGGATGAAACCTGAAAGGGGCCT
	768	GGGGCCCAAACTGGTATCAAGCC

	769	GCATTGGCTTCGGATTCTCCTACA
	770	AGGCGGCCCAACTGTGAGGTCTTG
	771	ACACCATGTGCTCCGCGCTGCAGT
	772	ACGATGAACATGAATCGGGAGTCG
5	773	CTGCATCCCTGTAGCAGCGCTCCG
	774	GTGCCGTATTTCGACCTGTGCGTT
	775	GCAGTGCGCACTTCAGTTCAAAAG
	776	GCGATTTTAAGCGATGCCTTGACG
	777	TAGGTGACCTAGGCTTGCTTGCGG
10	778	CTGGATACCTTGCCTGTGCGGCGC
	779	CCCCTTACGGCTCGTCGTCTATGC
	780	GCGCTTGCCCGATGCGATGCATTA
	781	TTTCTGTAAGCGGCCTGGGGTTCA
į	782	GGCTGAGGTGAGCGGTAAGGATGA
15	783	TCTTGGCCTCCCGATCTAATTTG
ļ	784	GGAGGTAACGCCGTGTACGTAGGA
	785	GTAATCCATTTGTGGCTGCGTCAA
	786	CAAACCCATTCCAGCAGACGCCTG
	787	TAGGAGGAATTTGGCATGCGGGCG
20	788	ATAGGTAGGATGTGCCCGGCGTTG
	789	GCAAGTGCTTAGCTCGTCAGCCTC
	790	CTGGCTGTGCGCATCTCGTTAAC
	791	CTAACGTCGTCTCGCGCAATCACT
	792	TTTTCATAAACGTTGTCCCCGAGC
25	793	AGCAGGAGGACGAACCTCCGCTCC
	794	TTCAAGCACCATCGTGCAATCCAA
	795	AGCGTCGCCAGTGATCGCTAGTGG
	796	TACATTCCCTGCCTCCGTGGGCTT
	797	CGCTTCGCGTATTCAGTAGCGGTT
30	798	TCGGACGCGTCGACACTCATTATA
	799	TCTGAGCAGGCCAGCTCCAGCT
	800	TTGAATTGCCAAGCCCTGAAAGCC
	801	AGTTTTCGCCTTGATGCGTCGGTG
	802	GTTTCATAGGCCACGCGTGCTAAA
35	803	GGAGCGAAGACTTCGTCTGCCCAA
	804	ATTGGCCGAGGGTGAATGCAGCCT
,	805	TGATCCATCCGAATGCTTTTCCAT
	806	GCACACAGTTGTCTTGGCCCATGA
	807	CTGGCGGGCAGTGGAAAAAACAAC
40	808	ATCTCCATGCGTAAGACTGCTCCG
	809	TCTCCTCTCGTCGCAGTTCGTGGA
	810	TAGCGTATTCACTCTTGCCGAGCA

	811	CAATCAAAAGCCACGGCGCGATGG
	812	AGCGTCACGGAATTCAGCAGATCT
	813	GACTCCCTGTTAATGCGCCCAAGG
	814	TAGGCACTGCCGGTTCAGATTCAA
5	815	AACAGGGTGATAACGGTGGCCAAT
	816	CGTGCGTACCATGTGTAAGTGCGT
	817	GACCAATTCTACTTCGGCAGCCCA
	818	ATCGGACCGATTTGCTTTTGGCTG
	819	TCCGCCGAAGCACACGCTTATTCG
0 .	820	AACGGTACGCATTGTGAGCAGTGT
	821	TGGCGACTACTGTTCCCCTGAATC
	822	CAGAGGGGACAGCCGTATGCCTTA
	823	CGGTGGTTTTATCGGAATCTGCGA
	824	TTGGCCTCCGACCTCACGACATAT
15	825	CGTTTCGCTAGCATCTGGCGCCGA
	826	ACTAAGCGGTGGAGCCGGTGGATG
	827	ATATTGGCTGCGTTTACGGGCCGC
	828	CCGCTATGGTGGCAATCCCGATAC
	829	GTTGCATGTGGCTCAGGCGGCATA
20	830	ATTCTGGGGAGTGACCCAGGGCTT
	831	CTCTCCAAGGAGACGAGCCAATGT
	832	GAAAGGACGGGATTTGGGGGCTAA
	833	TATGTAGTACCTTGGCTCGCGCCA
	834	TCCCTTTCGATGAGCGGCTGTACT
25	835	TAGATCGGGCAGAGCCCGTATCTT
	836	GGAATGCTTTAGGCTGCCGAGCTG
	837	ATGGTAGCAACATTCAACGCCAGG
	838	CTATGAAACGTGTGGCCCAGCAAC
	839	ATGTTGCTAGTGCCTTTCGGGCCT
30	840	CCAATGTGCGCAGACTCAGTCATT
	841	GATAGTGCTCGCAAACGGGCCTTC
·	842	GCACCCTGTTGCCTCATTGAGCGT
	843	GGCGTGAATAGAGTGACCAGGCGG
	844	ACGTGCCAGCTGCGGGCACTTTAT
<b>3</b> 5	845	AGTGGAATAGTCGCGTCGTGCCGC
	846	ACTCGCCTATTACCGCTGGATTGG
ı	847	GAGACCGGATTGAGATGATCCCGT
• • .	848	AAAATGGCAGGCGGCAAGCAATTG
	849	CTGGCAGTTTACCACCGAACCAGT
40	850	TTACATTGCCGATTTCGCATGTGA
	851	TAAAACTGAAGGGTCGCCTCAGCA
	852	GGCTTCGCATGCCTTTGCAACATT

		T
	853	AAGACCGAAGGTCTCTCTGAGGGC
	854	GCCTATGGCTCAGCTCAGCAGTA
	855	CGTATCATAGCGTTCGGTGGACAA
	856	CATGCGCTCGCACTCTGCCTGTCT
5	857	TGGGCAATTCGGAAACGTCGGTCT
	858	TTGCGGAGATGCGACGGTACATTG
	859	ACTTTCGCACGTCGATCTGGACTG
	860	CTAACTGCCGCGGCAAACTGATTA
	861	GGCCGCGATTTTATTCCTTGGAT
0	862	GAATTTGGAACGGTGTTCCGATGA
	863	GTCCATCCATCTACGGCATCAGGA
	864	TAAACGACCTGGCACATGTGCGTA
	865	CACCATCCAAGAGCCAATCCTAGG
į	866	ACTCATATACGATCAGTCCGCCGC
5	867	GTGCCAACCGACGATCAACCGAAC
	868	TGGGGTTCGTACAGGTCGGTTCAT
	869	AACAGTAGAGGCGAGGCCTGCGGG
	870	TGCATCGAATCCGAGATGGATCTT
	871	GCGTCACGTTATGTCCGCTCTGTC
30	872	GGGACATGCGTAGCGCAATATCAC
	873	CACACGTCACACCATCCAAAGTGG
	874	ATGCTCAGGTGCTAAATACGGCCA
	875	AAAAATGTTTAGCGCGCTGACTGG
;	876	ATAGTCCGTTCCGAACGA
25	877	TCGATCTTCTGGGTTGCAGACCAG
	878	GTCGGCGCAGCCGATCCTCATGTC
	879	GTTGCGGGGTGTCGAAAAGGATCT
	880	ATCTCTTCCTCGGGTGGATGCCAG
	881	TGATGTGCGTTTCAGCTTTTCGCG
30	882	GTTAAGGGGTGAGAACATCCGGCC.
	883	AAGTCGTCTCCTGCGTCTCGTCC
	884	CCGACCTAATAAGGCGCAACAATG
	885	CATCATTGGCACCGTACCAATGCC
	886	TGGAGAAAGGGAAGTGCAGCAACG
35	887	TGGTACTCCTTGTCATGCCTGCCA
	888	GGCACAGGTTCTCTTGCAGCGCGG
	889	GAATCTGGGCATTGCTACGAGACC
-	890	CGAAATGGGAGCGTCCACTACCAC
	891	ACATATGAGCTCGCGTGCTTGCAT
40	892	TCGAGCACGGTCACTGATAAAGCC
	893	GAGGGTCCCTGCTCAGAGTTGGTT
	894	AAATGCGATCGCCCCTTATGGAAT

	895	CTACCGAATGGATTGCGGATGGC
	896	AGGGACTGGCAGGTCTCTGCGCGT
[	897	TAACGATCCATTCCACGAATGCAG
	898	GGCCGCACGTACGATTACGCCTTG
5	899	TGGGGAATGCATCAGTTGTTGGCT
	900	TATCTGGGAGTAGCAGGCAGGGCC
	901	CCGAAGGTTTCACGCTCAGGTCGC
	902	GAACCCAGCTGGGACATCCTTCAG
	903	TGCATGCGAGCAAATAACCCGGAC
10	904	AATTGTCCGCCAAACGCTTTTCAG
	905	GTCGGCTTCGAGCGATCGAGTGTG
	906	TCGCGTGCTCTACGTAGCCCATGA
	907	GGCTTCCGCGATAACGTAATTCGC
	908	TGTAGCCGACTAGGGCCGAAGCCC
15	909	AAGCGAACGCCCTGGCTGAATATT
	910	TGTCACGCGACGTGCTGCAGATTT
	911	CCGTGTCCGTGTTGTCGACAGGCG
	912	CCCCACACGTTGCGCCTATATGTG
	913	GGCGGCACAACTCAACACAGATG
20	914	CGACTGCGGATCACCGGTGATTA
	915	TCGGGACATGACCGGTACGGAGTC
	916	TACCTCGAGTGGCCGTTGATCGGG
'	917	TAATTCATGGGGCTAGCCGAACCA
	918	ACACTCTAAGCCGATTCCGTTCGA
25	919	GTGGGCGTGAGTGACACGCACAAA
	920	ACGACTCCTCGGGCAAAGTACGTA
	921	TGTGGTCATGGCGCTACTGTTTTC
	922	CTTTCGCTAGCCAGAGCGGGTTCC
	923	ACAGGGCGTGTTAGCGTGTGACAA
30	924 .	GGTACTTCCGGCGTATCGGGCCAC
	925	GTGGGTTTTGTTCACCCTTCTGGG
	926	ACGCAATTCCGCATTACTTACCCG
	927	CGCCTCGACTGCGGTCAAGCACAA
,	928	GTGAAATGGATCCAGAGAGGGCCA
35	929	TATAAACGCTGCAGGGCTCCGTTA
	930	GTTATTCAGGCGGCTTGTAACGGG
	931	GGGTTCTAGCGTGCGCGTTCAGTT
	932	TTGGGCTCGAGCGGTACACCACTA
	933	CCGTCTTCAGGACAACGGTATGCG
40	934	GGACCCTTTGACAGATTGCGGCAC
	935	TAAATTTTATCGCCAGGCGCGCT
	936	GCCGAACGCAAGATCGCTTGAACT

	937	TAGGCCATTGGTGCCCTAAGACGG
	938	CAAACCACAGCTTACAGGCTGCGT
	939	TAAACGGAGACTGGCACGGTAGCA
	940	TAGCGCGCATCACACTTGGAATCG
5	941	TGCTGACACAACGAGCCGTTTCG
	942	CGCTTAACGGCATTGACTGTCCAC
	943	TTCCACGCCGTGTATTACGGATA
	944	TTTATGCCGTTGCCGAGGAAGACT
	945	AGTGCCGAGATAGGGGACTGGGCG
10	946	CTAGTCTCCACGCCCTCGGGACGA
	947	CCGCCATTCGGAAGATGGATGATG
:	948	TGACGGTGAAAGTCGATTGCGAAG
	949	ATATGCGTCACCACCGGTTCCGA
	950	CCATCAGTGAAGGGGTTGCTGCCA
15	951	CATATGTGCTTGGCTTGCGATGAC
	952	TCTGCTTTGGAAGCCTGAACTGCT
	953	CGATTTGGTCAAGAAGGCGGAAAT
	954	ATCAGAGGCCTTCCCGCCTCGTTA
	955	ATTGTTGTCGTTGCCACATCGCAG
20	956	TGAAATGTGTCTGGACGCGAGTCT
	957	GCGGGCGATGCTCCTTAAAGGGTA
	958	CCGCAATCTCCATGCGTCGACCGT
	959	TGCCGCGTAATCACCTGGAACTTG
	960	TTCCAGTAGCCAGCGGTAGTGTGA
25	961	CTGAATTCCGCCTATTGTTCGGCA
	962	GCTTGAACCTCGAGGCGATGTTCT
	963	CAAGCGTGGAAGTACGACCCGCCA
	964	GTGTGCACTGGATCCGAGCCCTAG
	965	TCCCTGGGCTAGCATTGCGAGGTT
30	966	AGAACCAAAGACGCTTGTTTGCCG
	967	CGTCACATGCAAACGTTCCCTCCC
	968	TGACCGCATGTGTATTGAGTCGCT
	969	GCGGGCCCAATGAGTATCCGTCAT
	970	TAGTGACTGTGAACGCCCCTGGTT
35	971	GGCACCGTCTGCCGCGCGTATATC
	972	TCGATGCAGTCTTTTTCCCGTCAA
'	973	ACCCCGTGGGGTTTCGCCATTTTT
•	974	CTACACGCGCAGTTGTGACTTGTG .
•	975	CGCAGCGACCTCATCTCTGGAGCC
40	976	CGACCCAGCACTCCTAAAATCGGT
	977	ACGCGCCGCTCATCACTACAATCT
	978	CGCAACTTCCTGTGGCAAAGCCAG

,		
	979	TCGTTGGGCACATAAGGCAACTGA
	980	CCGCTTGTAATTGCCATTCTCCGT
	981	GTAACCAGGGAGTCCTGGGCTGTG
•	982	AGCGCAAGATCTGGGGGCAGTCAC
5	983	GCGTACATCTGCTCATCAGCATGG
	984	CCTCTGTGGCAGGAAAGAAACCGT
	985	CCTATGCAATGGACCTGCATCGGA
	986	CTCGGTGGATGGCGAATAAGGATA
	987	CCTCACTCGTGATGGCGTGACGCA
10	988	TACGCTCACAGAACGCCATACGCC
	989	CCGGAGAAGTTACGCGGATCGGAC
	990	GCGCCCTCACTGCATTTTTGGTAT
	991	ACTTTCAGCACGCGAACAGCGCAA
	992	CTAAACGCCCTTGATGCATGAGCA
15	993	GCTTGCCTTTTACGATCGTCGCTA
	994	CAGACATCGTACGCACTCGGCATC
	995	TAGCCGCGCGCTCCTATGCTCTT
	996	GATGCCCTTTTGGTCCCCATGCCA
	997	TGAGCTGCCTTGCCACGATGCCTC
20	998	CCGCCGTATACGTGCCATAGTTTG
ļ	999	TAGTGCTCTCCGCGCTCATCCAAC
	1000	CCCTAGATAAGTTGGGGTGĢGACG
;	1001	TGAAGGCCACCTGATATGGTTTC
	1002	GCCGCCTCCGACTGGTTAACCCGA
25	1003	CGCACGGCTACTAACAGCGGATCA
	1004	CCGGACCAATTCCAACGAGCATCG
	1005	CATTGAGGTCCACCGTTCACATCC
	1006	AGGACGCAGCATGTCCCAGCCGAG
	1007	TAATCGCGGGCCATACTACCAACG
.30	1008	CGCAAATTTCTCCGGTCGGCAAGC
	1009	GTGGCTCGACTAATGCCTTGCGTG
	1010	TGTGGGCGTGTTCCGGCTCACTGT
	1011	GTTCTTCCTTTTCTGCGGTGGGAA
	1012	ACCTCGAGTCAGATTGTGCGCCTT
35	1013	CAAGTGGACAGACGGTTTGTTCCG
	1014	TCCAGTTGAGTCGCGCCGACGAGG
	1015	CGCAACAGGTCAGCCCTTATTTGC
	1016	GCCGTGACTCCTGCAATGTCGGTA
ı	1017	ATCAGCGCAAGCTGGTCTGAAACA
40	1018	CCCTGGCCAGAACGAGAGGCCATG
	1019	ACGATCAAGGACTCGTCAGGGTTG
	1020	TTCATGGCACCAAGACCACCGTTA

	1021	ACAGCAAGGAGATGGATTGCGACG
	1022	CGTAAATATCTGCGGCGGTGTGAA
	1023	GGAAACACGTGTTCGTCTGTTGGC
	1024	CGATGTTAGGATTCGGATAGGCCA
i	1025	ATCGGACAAGGACAAGTGGATGGT
	1026	GCCCGGAGGACAAAGTTCGAGTTA
	1027	AAATCCGACAAATGGGCACATGGA
	1028	CAGTTAGGGGATGCGGATGAGTGA
	1029	CGGCAGGTGGAGATTCCGACATTG
Э	1030	TAGGGCAGCCAGGTTCACTCATCT
	1031	GCACCGTATTAGCAGTAGGCACGC
	1032	ACGCATTACAGGTGTGCGAAGGGA
	1033	CGTGACTGCACGTGTTCCACAGGG
	1034	GCTGAACTACCGCCTAAAATCGCG
5	1035	AGCACGCCAGGGAGGATCGAGTTA
	1036	ATGAGGGCAAGGAATGGGTCATGC
	1037	GGGTCTCTCGTAATCAAAGGCCGA
•	1038	TATCTTGCGCAACGCCTCCATTTA
	1039	GGTTACACCTACGGAATCCAGCGG
30	1040	ACACCGAGTTGGTCCGGTCAATAG
	1041	TCCCAGATTAAACGCTAGCCACCG
	1042	TTGGTGAAACTGGCCGTCGGAAG
	1043	CCAGGGGAGTTGACAATGAGGCTG
	1044	TCTGCGTTATTGGACCGTTTGTCG
25	1045	TATGGGATGCTAAACCGGCGTACA
	1046	CACAGACGTCTGTCGGGCTTGTGT
	1047	AGAATGCCGTTCGCCTACTCCCGT
	1048	CGACGGATAATGCAGGCCTCATGA
	1049	ACCCTCTAAAGCAATAGGTCGGCG
30	1050	CACTCACGGCAGAAGCCTGCTTGT
	1051	ATCAGCCCACATATTCTCGGCCGT
	1052	CAAATCTGGGGTCGTCCTAAACGC
	1053	TGTCGCCCATGGCAGGTTAAATAC
	1054	GGGGGCCCATCAATTCATTATCGA
35	1055	GTCGAGCAGCTTTAGTATCGCGGG
	1056	CCGCTAAGCACCGAAGGCTCACAA
	1057	TAGAATTAGCGAACGGTGATCCCG
	1058	CACATGACATTTGGCAAAGGTCCA
	1059	TCAACGCACTGGCGATGACTAGAT
40	1060	CGGGAAATGTCTTTAGCCGTCGAA
	1061	ATCAGAGCAAATCTGCAGCGGGGA
	1062	GGCCTGTTTCTGTCCAACTGGGCT

	1063
	1064
	1065
	1066
5	1067
	1068
	1069
	1070
	1071
10	1072
	1073
	1074
	1075
	1076
15	1077
	1078
	1079
	1080
	1081
20	1082
	1083
	1084
	1085
•	1086
25	1087
	1088
	1089
	1090
	1091
30	1092
	1093
	1094
	1095
	1096
35	1097
	1098
	1099
	1100
	1101
40	1102
	1103

1063	ATTTCACCTCGCTGATCGCTTCCG		
1064	AGTGACGCCGAGTCGCGAGGGTTA		
1065	AGTTGTCTCATCCTGTCCGGGACC		
1066	CTTCTTTGTGCACACTTGCCAGGG		
1067	CACCTCATCGGAGCATAGCAACCC		
1068	ATGCGATCCATGACAAGGGTTGCT		
1069	CCCGTGGAGATGATGTGCGGCTTA		
1070	CCCAATAGACGCCACAGCCAGTGA		
1071	AACGACCACGACCCTCGCCGAGTA		
1072	GGTGCTTTGTCTGAGGCGAGTGAA		
1073	CTGTCGGCGCTGCTCTCCGAATTT		
1074	CTCGCCGGAGTGTTGTAAGCATTG		
1075	AGCAATCATGAGAGGTGGCCGGTG		
1076	ATTTGCCACCGGCGACAAAAGAT		
1077	CCGCCGTGTTGGCATGTCTTTTG		
1078	ATCGGAAGTGCTGACTGACACACG		
1079	CCTCAGACCCTATCTGGGTTGACG		
1080	CTGTGTGGTCTGGTCCGGCTGTTC		
1081	GTCCCCATTATCGGTGAGTGCAAC		
1082	ACAGGCACGTAAGTGCTCAATCGG		
1083	AGCAAGATAGCGGGAGTGCCCCTA		
1084	GGTTTACGCCATGACATCCCGTCA		
1085	GTGCAGGCCTTTGTGTGTGAATCG		
1086	CTTCGAGGGTAGGGCTTCGAAACG		
1087	AGTCGACACTTGGGTTTACCACGG		
1088	ACATAAATCTCGCCCGCTGCACTC		
1089	GTTTGGTTTTCCACGGAGGTTTGA		
1090	GCAGGAACCAGATTAGTGTCCCGG		
1091	TTTGCTAGAGCGCGGAGCTAAAGC		
1092	CTATGTGGCATCGCTGACATGCTC		
1093	CCTAAGTCGGTTTGCAGCTGCTCT		
1094	GCGTTCGTCCACAGGAACGGAAGG		
1095	TAACCCGCGCCCGAGAAATTGTCT		
1096	TATGGTGCTCAGAGCTGTTGCCAA		
1097	TCATCGACCCACTAACGTCAGGGC		
1098	TGCTCAAGCTACGCGTCACTTCCC		
1099	AGCGGGAAGGTCTGAGGAGGGAAA		
1100	CCGATGTAGCACCACCGCAGTGGC		
1101	AAGTTCTGGGAATCACACGGCGCG		
1102	CACCAGCCTTACGTGCGGCGTTAA		
1103	CGTTTCGCCTCCTCTTCCGAATGC		
1104	GAGGAGGCCAATAGAGCAGCGCGC		

ı		<del></del>
	1105	AGTAATCTTGCGGCACACAAGCGG
	1106	TGAGGACAAACCGCGCGTAGGATA
	1107	TCGTAGAGACGCAGTGCCCATCTC
	1108	CGAAGCTACACCCCGAGTGCGGTG
5	1109	ATGATGTGATCTTCCCATGGCTGG
	1110	TGTACACGTATCGCGTTCGCCTAG
	1111	GGTGTGCTTTTACGCATGTACGCA
	1112	AGGCGGGATACGTGGATGCTAGCC
	1113	AAATTAGGCACAGCCCTCCCACAG
10	1114	ATAAGTTTGGTGAGCCATTCGCGA
	1115	CCTATTTCGGCGGACCTCGATGCC
	1116	TTACCGGAATATGCACTTGGCCGC
	1117	CCTCTCGGACGGTCCCTTTGATCG
	1118	CAAGCGAATGCTGTATTACGGCCT
15	1119	GCATTTCCCATGCCAGAACGTTGA
	1120	GTTTTGGCTAACCGTCCTGCCTTG
	1121	AGGTTTTGTCCGGGCGAATGATGT
į	1122	ATGTCCACGAGTGCGTCCGATATC
	1123	AGACGCGTACGAGGGTTCTGCGCC
20	1124	AATACCGTTCCCATCTGTGCGAGG
	1125	ACACAAGGTGCCTCATCGAATGGT
Į	1126	GCCGGCAAAATCCTACAAAATCCA
· ·	1127	CTTATCCCATGTGCCGGTCTGACT
	1128	GCGGCCATAATGCATAGCACGGAA
25	1129	TACGGTGCATCGCAGTATGGGTAA
	1130	CACCAGATGTCGAGGATCATCGCC
	1131	GCTCCTACGCCCAAAGAGGTATGG
į.	1132	AGAATATGGGCAGCAGCACTC
Í	1133	CTGCAGTCGCACGCAGTAGACCCG
30	1134	ATGTCCCTGACCGGAATCTTTCCA
ļ	1135	TTCGCCACGAGGCATTAGTCCGAC
	1136	ACGTCGTTCCCGAGAATACGGTCT
	1137	ATCCGCTGGCGCTTTGACGAAGAA
	1138	TGAACCAAATTCTTACCGCGTGGA
35	1139	CACGCGTAGGCTGGTGTCATTC
	1140	TCGATCCCGCGATCTGGCCTATTG
	1141	GGAACACTCAACCACCGTGGATCT
	1142	TCACACACCAACTGGCCACAGATG
	1143	TGTGCTTAGGACACCAGGCAACCC
40	1144	GACATTTAACCCGACCGATTGTGC
	1145	GGCACCGAGCCAGTAGGCCTCTGA
	1146	CTCAAGCGTGCATGTTGGTAACCA

	1147	AGGAAGGCCACCATCCAATATTCG
	1148	TTGGAGCCCTGACTGAACCAAATC
	1149	TACGAACGCCAAGGTTATGCCAAT
	1150	CGCACCAGAGTTATGCAGGCTCAA
i	1151	CCAGCTTGGACGAGGAAGGATGTG
	1152	GTCACGCCTTTCAAATGACCCACA
	1153	TGCTAGACCCAGCCCGAGTCTCGG
	1154	TATTGTGGCACTTGGGTCCAGTGC
	1155	CACGTGTGAGACCGGAAGTGCATC
)	1156	AACCTCCAGCAAAACGTCGAGGTT
	1157	GGCAGCCTGATGCTACAGCACCGT
	1158	CGGTCCGTCCATCCTTCAGAGTTA
	1159	CTATTCGCGGACCCTACGCAGTTT
	1160	ACCTGTGCAGTCAGCACGAGTGCG
5	1161	GAGAACCACAGGTGGTCCACCCTA
	1162	CCTCGCTAGAGAAATCCACGGGAT
	1163	TAACATCGGTGCAAACCGTGGCGC
	1164	ACCCAGAAGACATGGCATTCGCCT
	1165	AAAAGCGCTGCTCTAACACCGCCG
<b>:</b> 0	1166	CAAGTCTGTCCATTTCCCAACGGT
	1167	CCGACACATGGTGGGCTTTTTAAG
:	1168	ACAGACCAGCTTTTTGCGCAGATT
İ	1169	CGGCGATCCATTTCACTTCAAAGT
	1170	GACGTTATCATGACACAGGTCGCG
25	1171	GGCAGAGTTGGATCGGATCCTCAA
	1172	TTGCTGGCAAACAGCTCCTGAAGA
	1173	CCTCAATGCCACCGAATTCGGTAT
	1174	GGAGTTAGCGTGATTAGTCGCCCA
	1175	GAACTCGACGTGTCACGGAAGGGT
30	1176	CACAAGCGACATTTCTGGTGCACG
	1177	CCAGAATGCGTGAATTCGCGTCCT
	1178	CAAGGGAGCCCTGCGAATTAGAGT
	1179	ATTCTTGCTTCGGACGACTAGCCG
	1180	TGCCACTTTGATTTCCAGATTGCC
35	1181	GATGGTCGGCAGATAAGTGGTGGG
	1182	GTTCACACGGGTTGACCAACATGT
	1183	GATTCAATTGCCCCATTCCTGCAT
	1184	TACCGGAAACTGAGCCTCGTGCTA
	1185	GGATCTTTACTCAGGGGCAGAGCC
40	1186	CGCGAGTGCTTTGTTCTGTGTGGA
	1187	GTCGTCGCGATGGCGTACATCCTT
	1188	ACGGGAATCTCCCGAAGTGCGAGC

1190 CCATTGGAATACTGCGTGCGGCTT	
1191 GGAAGACTTCGCGAGGGCACAATG	
1192 AGGGTGACTTCGAAGGTCCGAACT	
5 1193 TCGTCCCTCTGGTGGTCGAATCAC	·
1194 TGTGCAAATTATGCTGGGCGTGAG	
1195 GTCGCCAACTGTCATGTGCCCA	
1196 CCTCGAACCCTCAAGACGAAACGA	
1197 CTTCATCACGTGACCTTTGTTGCC	
1198 CCTTCATTCCCAGCAGGATGGCTT	
1199 CGGGGACCTCAATGGAGCGTCTTA	
1200 CGCCTCTAGCGCTTGTTACGTCGA	
1201 CTGCCAGACTCAAAACAGGGACGG	
1202 CTCCTTACACCGTGTGAGGGAACC	
15 1203 TTTCATGCCATATCGCCTCGCGCA	
1204 TCTGGCTTTTCCTCGATCAATCGT	
1205 GTCTGACTGTCTGCCCTGTATGCG	
1206 GGTTAATGGAACGCGTTAACGCG	
1207 CTTCGCACTGCGGAATCTCAAGCT	
20 1208 TGCCAGAGGCGTAGGAGTCCTGGA	
1209 GACGGGCGAGCCAGTATTAACTCA	
1210 GACCTCCAAAGTCAGTCTTGGCGG	
1211 CGTTAGAGCATGACCGAACACGTC	
1212 GTGGGCTCAAAAATTGGGTACGCC	
25 1213 GGGGCAGAGATCACGCGTTCCTCT	
1214 TTTCGCCCTACGAAGCGAAGTTTC	
1215 TACGGGGTGATGTTAAGCTACGCG	···
1216 CCTGTGAGTCTGAGATCGCCGTGT	
1217 ACTGAAGCTGGAACAGGCCATTCG	
30 1218 AGCACTGGTTCACATGGGAGTCCA	
1219 TAAGGAAGATCACACTCCCTGCGC	
1220 CACCACACGCTAAAATTGAAGCCG	
1221 GCTGTCGCCAGGATCATGTATCGT	
1222 TTCGTTCGTGCACTGGATTCTTGA	
35 1223 TCAGCTCTCCTTGTGCTTGCAGTG	
1224 ACGACGAGGTGAACTTCGTGGGAA	
1225 AGCATTGCCGCGGGCCTTGGTTTA	
1226 CAGAGGCAGATGTGACTCCTCAA	<u> </u>
1227 CGATATTTCAGCCTCTCAAACGCG	
40 1228 TGCCAGAAATGTTGCCGATTCGAA	
1229 TAGGCCACCGGTGTTCACAATTC	
1230 GAGAGTCAGACCGAGGGACACGAG	

	1231	GAGGCGATCCTGGAACCACGCAAC
	1232	CCAGAGAGGCGGGCTACTGACTCA
	1233	CACACAGTCCCATCGTACGGCAGT
	1234	TTACGTTGCGGAAGCGTGCCTCTA
5	1235	ATGTACACGCTGCAATCGTGTCCC
	1236	ACTCGTCGGAAGCGCCCAGGT
	1237	ATGCGAGAGCAGAATTGAGCCGGT
	1238	AAGTTGGTTCGTATTCACGCGTGC
	1239	TGGGCTTATCGCCGAAGATTGCTA
10	1240	CAACGGCGAAGACCCAGAATTTTA
	1241	AGCGTACGGCGAAAGTCTAGGGAC
	1242	ATGCATCCAGCGTCCCCTTGATTA
	1243	ACCGTCATCAGTCGCAGGCTTCTG
	1244	TCTTGACGGCTGGGCATGATTGGA
15	1245	TTAACATTCGGACCCAGGACCTGG
	1246	TGGTGTCGAACTCCCTTGCGTGTT
	1247	TACTCCAGTCGCCTGCGCGCAAAC
	1248	CGCAATGCCGTAAGCATGCCAAGC
	1249	AGTCCGCGCGAAATACGAACAGTA
20	1250	ATGTTGCACGCGCACTGTATCACA
	1251	GGGATCAGCATCATTGGAAAGGAG
ļ	1252	ATCGCCTAACTACCCGCGGCGTGC
	1253	TGGCCAGGGAACACAAGCTCGGTA
	1254	AAACATGGGTCGCGTCTGAGATCA
25	1255	GCGAGAGCTGCGATTCCCTTTTAG
	1256	CCGGCCAAACAAGAGACGAGCGGA
	1257	AATGGGGCACAGTCTCGCTTGACA
	1258	TGTCTCGGGCCTTCAGGACACACT
	1259	TCCACCTTCATTAAGTGGTTCGGC
30	1260	GCTTCGGAATCATCCACCTGTCAT
	1261	GAGCCGATGGGCTATCGTCGTCGG
	1262	CACGAATTACGCACGCACAGAGGA
	1263	GCTGTGACGCTCCCCTCAACTAGG
	1264	CGCTCTGAAAACGCGGGCTACGTT
35	1265	GAGTGCTGGACACCGTAGCCAGGA
	1266	CCAACCCCAGTGTAGGCGCAAATG
	1267	GAAGTAGGGGATGTTGGCCGGCGG
	1268	CAACGTGGGCACCTGTTTTAGCAG
•	1269	CTAGCTGCGATCCGAACCTCTACG
40	1270	CATTGAACCATCAGCCAAGCTGCG
	1271	AGACTGGCAATTTTTCGAGGCCAA
	1272	CTGGCCGTCCATGAGTTGGTCCAG

	1273	CATGCTGAAACACGGGATTGCCAT
	1274	CGATATGTAAGACAGCCGTCGCAA
	1275	AGCGTAACCTACTGGGAAGGCACC
	1276	GTGCTCGTGGCACGTACAGGCCTT
;	1277	GTTCGAACCCCGCGATGTTAAATG
	1278	GTTGTTAGGAGGCTCGAGGCTGCT
	1279	ACTGGTGCTACGCGGGATATTTGA
	1280	CTGGGAGCTATCCTCAGCCGAATC
	1281	GAACTCGCCGCTGCCGAAGGGTAG
כ	1282	TTCGATCGAGGAGCAAGGAGAGTC
	1283	GGGGAAAATTGAGGCCTTAGCCAT
	1284	CTAAGGTCAAAGCGCTGTCGCCAG
	1285	GTGAGGCTTACCCCGTGCTCTTGG
•	1286	CCGTAGCGGTGCTCGACCAGGTTC
5	1287	TGGGGACGAATCCGAATGTAGTGA
	1288	GTCATGTAATTGCATCCCACGGGT
	1289	CTTTGCGCGGTGGTCAATAAAAAG
	1290	CACTCGAGATTCAATGGGCATGGT
	1291	CTCGGGGATGCCCTCTTGGCATTA
<u></u> 20	1292	CGAAACGTGGTGCAGAAACCTGAA
	1293	GGAGTTCACGAGTCGAGCAGTCGC
	1294	AGCCGTTTTCAAAGATCTCGACGA
	1295	TGGCTGGACATTGTCTGCAATGCA
	1296	ATCGGCTGCCTCAGTCCCTAATTT
25	1297	CCAGCATGGAGTTAAGTGAGCGCG
	1298	TTCATATTTACGAATGCCGGGTGC
	1299	CGAAATCGCACAGGAATTCGCGTC
	1300	GGCAATTTCGGGACACTCGTTTCA
	1301	TTTGTGATTGGGGGTATAACCCGA
30	1302	CCCAGCTAATCCAGCTTGGGCTGT
	1303	AAAATCGTTTGGCTGTAACGTCGC
	1304	AGGAGATTCATCGACTTCCGGGAA
	1305	GCACGGGTCTCAATGCTTAGGGT
	1306	GCGCAACAAGTAGCCTACCGAGGC
35	1307	TAGCAGGCTGATGCCGTCTACACA
	1308	GCAAGCGGCGATCGTACAACTTGT
•	1309	GCACCTCTGGTAAGCCTGAAAGGG
-	1310	CGAGGGCGTGAGTGCATACCGTG
	1311	GGATTAACCGGAACTGCCCTTCTG
10	1312	GATATTGGGTCCGGCGCGCATTAC
	1313	GGCCTTTAATCTCCGGTCGCAATG
	1314	AACCTTAGTGCGGCTAGGTGGGGT

-74-

<u>?0</u>

25

30

35

·	1315	CACGCTGACGCCAGTGTGGTGAGG
	1316	GGTTCCCTTGACCCACCGAATTGA
	1317	TTCTGACAACATCGACCCTGGCTC
	1318	GCGAGCGAAGATAATCCCCAAACT
5	1319	GTACTCTGTGCAACGGTCCCGAGT
	1320	ACACGCCAGGAACAGTGTCTGTGA
	1321	AAGGGAATTTAGCGCGCGTGACTT
	·1322	TGACGTACGCGTTTTAAGTGGGGA
į	1323	CTTAGAGGGACGAGGCCATGAATG
10	1324	GGACGACTCCGCAAAAAAGGTCGT
	1325	TCAATCCCAACATCCAAAGCCTCA
	1326	GCACTGGTCTACCAAGCTTGTCCC
[	1327	ACTTGTCGGAAACGAGACCGAGCA
	1328	TCAGGAAAGGCCTAAAGGCGAAAG
15	1329	GGAATGTAGTCAAGGAGGACGGGG
	1330	GCACGTGGTAAATGAATTGGCGAG
	1331	GATCATCAGGGGTTATGCGTCGCG
	1332	CTCACTCATTCTGATTGCCCGCGG
	1333	GGGGTGATCTCTCGAACGTCACCC
20	1334	AAGGTTGCTGCTAGCGTACCTCGA
	1335	TATAGATCGCCCAACAGGCAGGAG
	1336	GTTTGGACCTGTTGGGAGTGGGCA
	1337	ATTGGGGAAAACCCGGTCTCAAGG
	1338	TCGACGATAAAGTGCTCACGGGAC
25	1339	CGATAGAATTCAATGCAGGGCGGA
	1340	CGGTTCGCTACGGCGGCTGGTTTC
ĺ	1341	CCAGGTTTCGGTTAGTCGCGCTAG
	1342	ACGACCTTACACTCGGATCCGACG
	1343	TCGCGTTAAATGGACCAAGGGGCC
30	1344	CCAGAAAGAAATGGCGCCCGGAT
	1345	GATACATCGCCGCCTGCTAGGCAC
	1346	GAGATCACACTCGGAAACCGGATG
	1347	ACTTCGCGGAAAAAGGCTGGCATT
	1348	CCGAGCTGCACGAGCACAAAGT
35	1349	TTCCACAAGGCGGCATAGTGAGGC
	1350	AGCAAACTGGAATCCGGAAAAACC
	1351	CGCTATGTCGCAGCATGCATTTAC
	1352	AGTCACGCCAACGTCGGTTCTTT
ĺ	1353	AGTGGGCGCACTTGGCCTTAAATA
40	1354	ACTTGCAACTTCGGCCGTTTGACT
	1355	CAAACATCAGGTTCATGCCGTACG
	1356	AGCGTGACCACCCTACAATGGCAA

_		
	1357	GCAGGCATCCGGCAGAGATGTCTC
	1358	GAGCGGCTAAGAGGCCAGACCAAA
	1359	CACAGAACAGGGTGTTTCCCGCTA
	1360	ACTTTGCAGAAGGCCCAACACAAG
5	1361	CCTTCCTGGTACTTTGTGGGCGAC
<u> </u>	1362	CTACATGCTCACCCACCAGAGTG
<u> </u>	1363	ATTITCAGAATAGCCCCGCCTCGA
<u> </u>	1364	CAATTGCTACGTTGACGCCCTCTG
	1365	CTGTCGCCTAATCCTCGGTGGCCG
10	1366	TTTGTGTTGGCTCCGTACATTGGA
	1367	ACGTGACGGGAAGGTGGTTGAATC
	1368	AGTTCTTGCGTTGCACGAAACAGA
	1369	GCTCGCCGCGCGTCTTTATGTCTG
	1370	ATGAACATCGCGAGGCAAGCCTTT
15	1371	CAACCGCGCCCACCAACATTAAGG
	1372	TGATCGAGGACGGCTTGGTAGCCT
	1373	GGAGGCATGCCTTCCGAGAGCAAC
	1374	CACCGATCCTCAACGCAATTGCTA
	1375	GGCCATGAATTGGGAAATCCATGT
20	1376	CTGTTCCAGGCGTAACCAGCGGGC
	1377	TATGTCTGGCTCGCCATCAGAAGA
<u> </u>	1378	GGAGTGACCAGCACAGCATCGAG
	1379	TCGGACTGGAAGTAACTCGCATGA
	1380	GTAGGGTCAAGCACGATTGAAGCC
25	1381	CACCGGCGGTTCGACTAACGTGAC
	1382	GAATGACGCGCAGTGCATTTGAAC
	1383	GTGCTCGTCTAACCGCGGATAGAG
	1384	GCGGACCTGGGTTAATTGACGCGC
	1385	TTTTTGATGTTGCGCACCGGGCTA
30	1386	TTGCGTCAGCGCATCTGCTCGATT
	1387	ATGAGCACGCCAGTTCGTTCCTTT
	1388	TCAACGGTAAAGAATCGCCCCGCA
	1389	CGCGATTGACTGAACCACACCTCT
	1390	GCGTGAAAGATGACGGCCGGTATA
35	1391	CATGATTCCACCTCGATCGGCTAG
	1392	CTACGACAAGCAACCGTGCAAAA
	1393	ATGCCGTGTTCATCTTGATGGTCC
	1394	TTCGTGGAGGGACTTTGGAGATCC
	1395	GAAGCGCCGTAACGTACACCGTCG
40	1396	AGCGTGCGCTTGGCTATAAGGCTA
	1397	ACAGTCAGGAGTAACGCCGCTCAA
	1398	TTTAGCCGCTGCGACTGTAGGAAA

	1399	ACTGTGTCGCAATCAACCCGCAAA
	1400	TGCAGCCAATGCGGAACTTAGAGG
	1401	CCCGCTATCCCGGTCTTGCAGTTC
	1402	GAGGGCGCAACATATGCAGTGCTG
5	1403	CGTACGGACATCGATGACGCAACG
	1404	AGTCTCCCGAGAAACGCATAAGGC
	1405	AGGAAGTGGATGAACGCGGCTGCA
	1406	GGGTTGCTCACCCTCGTCATCAGG
	1407	TAGGAATGCGAGTTCCGGCGGTAA
٥,	1408	CTCCTCACTTCCAAGCTGCGGATA
	1409	TCAATAGCACCTAGCATGCTCCCG
(	1410	TGATTCCTGCGCTTTCACAGGTCG
	1411	GTATGTGCGGGATGGAAATCACGC
	1412	TACGGCAACTGTCGATACGAGGGC
15	1413	GGTTCCCTATCCAGCACTCCTCGC
	1414	ATAAGCGCGCCACAGGTATGTACC
	1415	GAAAGTCGCCAACAGACTCGAGCA
	1416	CGCTAATGCCTCATAGGCGTGTGC
	1417	ATCCCGCCGCACGAAGTACCAAG
20	1418	GACGCTGCTGATGGCTTTATCGAT
j	1419	CTCTCCCGTCGCTTCAGAGATTA
	1420	TCATGTGGGCCGTCGTATCAGTTT
,	1421	GGCCTGAAGGTGAATGGTTACGTG
	1422	AGCCTCCAAAGCCGGTAGAGTTCC
25	1423	TTGTCGTAGGCGCTCACCTTAGGA
	1424	GCCTGAGTCCGGGTCGGGAAAGAA
	1425	GGCACTATACCGGTTCTGGACGCG
	1426	CCGTGTATACGGAAAGGTACGCCA
	1427	CCCAAGGCAAGTGTGCATCAGTCC
30	1428	GGAGTGCATCATGGCCAAATCTGG
	1429	CCATGTTACGTCTGCGCACCACAG
	1430	GGCGTTGAGCTTAAAAGCAGCGAC
	1431	TTGGCACTCTGCAAGATACGTGGG
	1432	GATCTGCACTGCAAGGTCTTGGGG
35	1433	CGATCAACTTGCGGCCATTCCTGC
	1434	CGGCTGGGGTCACAGAAACGAGTA
	1435	GCGGCTAGTTGTACCTAGCGGCTG
·	1436	TCGTCACTGTTAGAGAGGCCTCCG
	1437	AGTGTCGTGAGCCCTAGCGGCGCT
40	1438	AGGACGCAGGGATTCAAGTGCAAC
	1439	ACCGATGCGCGGTCGGTCTCATAC
	1440	GGCAGAGGGTTAGGGGGTTTTTTT

	1441	GGCAAAGGGTGTTTATGGGAGACC
	1442	ACAAGGCTTCGGCTGGCAGAATAC
	1443	CATATCCGTTCCTATCGCCAGACG
}	1444	AAGCCTTTGTGGCCAAGGCCGCGT
;	1445	CCGAACCATGGCTTTATCCAGTGT
•	1446	
ì	1447	GTTCAGCAGTAGCTCCCTCCTCGA GCGCAGTGACACCATGATGCTTTC
	1448	ACGATCCATTTTGCCAGCATGCAA
	1449	TCCCTTCATTTCGGGTTTTTAGCC
o	1450	TCTTCTTGCCCACATTCCCTTTTG
Ĭ	1451	TGCCTTTTGATTGGTGGTCACGGT
	1452	GACCCTCACGGTCATCAGAGGGAG
	1453	CCGTTCAACACAGTGATACACGCG
ł	1454	CACCAGGGGATAGGTGCGGTACGC
5	1455	GGTCGGAACTGATCTGTGCGATCC
	1456	TGCTCCTTCCTAGGGTCATCCGTG
ì	1457	GTGGACTTTGACGCCGGCTACCGC
}	1458	CTGATCTGTCGGCGGTTACTTGCC
	1459	AGAGGAGCGGAAAAAACCGGACGA
20	1460	GCGACGAAGAGATCCAGCAAGCTC
	1461	GGGACTTCCAGCTGAGGGACGAAA
	1462	GGCGCACTCCAATACCCACTGTTT
	1463	GCGCTTGGAGACTGTCAGGACGTG
	1464	CAAACCGCTGGTTTCTCCACCTGT
25	1465	GCGATTGCTTGGGATCGGTGACTA
	1466	CTCAGCGACATTTTTCTGGTGGCG
	1467	CAGCGGCGTCGTTTACTCAGGACT
	1468	GACAGCCGTGAACGCTCAGCCGTT
	1469	GGGCCGTAGAGGCATCGGGTAAAG
30	1470	CGCCGCTCACCTGCTTAAAGCATT
	1471	TGCCAAATCGCAACTCTTGAGACA
	1472	CCCCGATCGGGTGTAATTCTCCCT
	1473	CAAGGTCCAGGTGACGCAACCACT
	1474	CGAGCCTTCAGTGGTATGCATGCG
35	1475	CAGCAGCGTGCCCATCTCGACTTA
[	1476	CGGACCAAGATGGCAGTAATCCAG
	1477	CTACCACGCTCTGCGCGGGCTGTA
	1478	ACGTGGTTAGGCATGAGCTGCGTC
	1479	CGACATATCCGACATGACCGGATG
40	1480	GCGCCAGGCTGTGTTAGAAAATA
	1481	AGCTGGGACTCCGGACCTTGAGTG
Į.	1482	CGGTCGTAACCGCTGCTACAACTT

	1483	TCGTTCCTCTGGAACAATTCAGCA
	1484	CGGCATCTCCGGACAAAGGTTAAC
	1485	TATCTTGTCGAGCGCCACTCGGAG
	1486	TGCAAGGGAGAAAGCCCCATGAGC
5	1487	ACTGCATAGCCCAGATCCGCTTGC
	1488	TGTGATTCAGTCGAAGCAAGGCCG
	1489	CATCCATCTACAATTCGGGCCAGT
	1490	ATGAGCCGTTCAGAAAGCCAAAGA
	1491	ACACTGGAATTGCTAGACCCCGCG
0	1492	CTGAGCTGCGTGGGACAACTCCGC
	1493	CAGCTACTAGGGCGCGATGTACCC
,	1494	ATAATGATGGGACGAGAAGGCCCC
	1495	CGACCGAGTGTTACGACATGGTGC
	1496	TGCAGTACCCGCCGCTCCACTAGT
15	1497	ATGCTAGCGCGCCTGTCAACGTAC
	1498	AGACTCACTGCCGGCTGATCAAAT
	1499	GCCTGGTGCGAAGATAGGGATTCC
	1500	GGAAAGTTGGCGGATCCGAGCACT
	1501	GGCAGTGAGCAATGTGTGACGAGG
20	1502	TGAGGTCCTCCCGGCGGACTACGA
	1503	CTCGCCTTAGATCGTGGTTCCGCA
	1504	GTCGAGGAATATCATCGCAGCCAG
	1505	GCGAATGCAACGAGAAGAAGGA
	1506	TTCGCCACCAAGTCGGCATTTGTT
25	1507	CGGTGGCTGACACTTGCCGGATTC
	1508	CAAGGAGCAATCAGATGGTCGGAG
	1509	GTGACCCGGTCCGTTCTAGCTGTG
	1510	CTCTCGCCCACATAACTGCACAAA
	1511	AAACCTGCCTAAGCAAGCACTGGA
30	1512	TTCCATATTGTACCCCGCGCATGC
	1513	TGCTTGCGATATCACGATACTGCG
	1514	TTAGTGTTCGAGCCTTGAGCCGGC
	1515	CTTGTTGCGCGAGTCCGTCTGGGA
	1516	GTCAGCTGCTGCTGGTGCTCTTC
35	1517	CATCCCTCGAGGTGTAGGCAACAC
	1518	CAGATGCACTCCGACGGGATTCAG
	1519	CTGAGCCTCGCGAAGCTGTGGCAT
	1520	GCTATGCCACGCCGCAGATAGAGC
	1521	AACACCAACCATACCGTCCGTTCA
40	1522	GCCCAGAGCTAAAGCATGTCTGGG
	1523	AATGCTGCAATGCTAGCGTCGCTA
	1524	TCCGGACGCAGTATCCAATCCGGA

1525	. 1		<u></u>
1527   TAGAACCGAGCACGGCGCTTGTA     1528   TTCGAGTAAGCTGGCAGGACCACT     1529   CTTTCGCAGGTTCGCAGGACCACT     1530   TACGTCCTGTGCTGTTGACACCGG     1531   GTTCGGGTCAATGTTTGGGGAGA     1532   CCCTGTTGTGAAGCGGTTTTGTGA     1533   GGCAGATTGGTGAACCCCAGATAA     1534   CCCTGGTGTGTTCAAGCCAAATC     1535   CCCGGAACATTTCAACCCCAGATAA     1536   CCCGGAACATTTGAACAGCTTAA     1537   TCGGTCTCAGCCGCCCTCCCTATCC     1538   ATAGCTGGTCACCACAGGCGGTC     1539   ATAGGCAGCGGTCTCCCTATCC     1540   TTAGAAGCCGACTTGAATTTGCGT     1541   TGCGGACCTTTACCAGGATCTCG     1542   GCCCACACTTAACCAGGTGGCA     1543   TTGCGCACTTTACCAGGATCTCA     1544   CTTGCAGTTTATCCAGCGCT     1545   TGCCTCCAAATTACCAGCTGCC     1546   CCCATATTACCAGCATCTCA     1547   TGGTCAAATTACTTACCGCGT     1548   CAATGTGGGAACTTTCAAT     1549   TAGCGTCGCAAATTACTTACGCCG     1549   TAGCGTCGCACATTCAGTTG     1540   TGTTCAACCCCACACTTCAGTTG     1541   CTGTTCAACCCACACTTCAGTTG     1542   CCCGTTTGGTGACAATTGCGTA     1543   TTGCGCACTATTACCGCGT     1544   CTTGTCAACCCACACTTCAGTTG     1545   TGCTCCAAATTACTTACCGCGT     1546   CAATGTGGGGAACTTTCAAGTT     1547   TCGTTCAACCCACACTTCAGTTG     1548   CAATGTGGGGACATTTCAAGTT     1549   TAGCGTCGCACAATTGCTTCC     1550   GGTGCTTCGTGACAATTGCCTCC     1551   CAGCGGCTCCGAAATTGCCTCC     1552   GGTTGCTCTCGTTTTTGATTGCA     1553   ATGCGAGGAGACACGACCGTTCC     1554   CCTGTTCATCAGACCCACGGGAA     1555   GTGCCACGAATGGCTCC     1556   ACACCACAGGACCACGATTCCTT     1557   CAGCCCGAAAGGACACGACTGTTC     1558   ACACCACATTAGGTTGCT     1559   ATTTCGACGATAGCTGCCCGTT     1560   TGAGGGAGAACCCGAATCGCTT     1561   GGCACTACATCCCCAATTGCTT     1562   GCAGACCGCGCTTCCATACTTTT     1563   ACACCACATGACCTCCAATCGCTT     1564   GGCACTACATCCCCAATCGCTT     1565   ACACCCACATGACCTCCCAATTGCTT     1566   GGCACTACATCCCCAATCGCTT     1567   GGCACTACATCCCCAATCGCTT     1568   ACACCCACTGACCTTCACTTTT     1569   GCAGACCACTGACCTCCCCATTGCTT     1561   GGCACTACATCCCCAATCGCTT     1562   GCAGACCCCCCCTCCATACTTTT     1563   ACACCCACTGACCTCCCCATTGCTT     1564   CTGCTGGCCCCAAACCTTTTT     1565   ACACCACTGACCTCCCCATTTCCTTTT     1566		1525	TAAGACCATGTGGCACCAAGGTGC
1528   TTCGAGTAACCTGCCAGGACCACT     1529		1526	ACAGCCACACACGCGCCCACTA
1529   CTTTCGCAGGTTCGCAGACAATCC   1530   TACGTCCTGTGCTGTTGACACCGG   1531   GTTCGGGTCAATGTTTCGGGGAGA   1532   CCCTGTTGTAGAGCGCTTTGAA   1533   GGCAGATTGGTGAACCCCAGATAA   1534   CCCTCGGTGTGTAAACCCCAGATAA   1535   CCCGCGAACATTTGAACAGCTTAA   1536   CCGTGTCAGTGCCCCAGATAA   1537   TCCGTCTGAGCGGCTCCCTATCC   1538   ATAGCTGGGTCACCACAGGCGGTC   1540   TTAGAAGCCGGTTAGCACACCG   1541   TGCGACCTTTACCAGCACTTCG   1542   GCCCACACTATAACCAAGCTGCA   1543   TTGGGCCACTATACCAGCGGAT   1544   CTTGCAGTTTATCCAGCAGATCCTCG   1545   TTGCGCCACTATAACCAAGCTGCA   1545   TTGCGCCACTATAACCAAGCTGCA   1545   TTGCGCCACTATAACCAAGCTGCCA   1545   TTGCGCCACTATAACCAAGCTGCC   1545   TGCCTCCAAATTACTACCGCCGT   1546   CCCGTATGCGGAACCTTCAGTTG   1547   TCGTTCAACCCCACACTTCAGTTG   1548   CAATGTGGGGGAACTATCAGCT   1549   TAGCGTCGCACAAATTGCGCC   1551   CAGCGGCGTCCGAAATTACCACCG   1551   CAGCGGCGTCCGAAATTGCGCC   1552   GGCTTGCTCTCGTTTTTTGATTGCA   1553   ATGCGAGGAGCACATTCCACGCC   1555   CAGCGCGTCCGAAATTGCTCC   1555   GTGCCCCGAAATTGCTCC   1555   GTGCCACGAGGAGACCGTTCC   1555   GTGCCACGAGGAGACCGTTCC   1555   ACACATCCAAGTCTGACCACTGTGCT   1556   ACACATCCAAGGAAAGCCTCCGTG   1557   CAGCCCGAAAGGACACCGACTGTTCC   1557   CAGCCCCGAAAGGACCCCCTGT   1560   TGAGGGAGAAACCCCCAATTGCTT   1561   GGCGACTACATCACTTTCTT   1563   ACACACCACTGACCTACTTTTT   1563   ACACACCACTGACCTTCCATTTTT   1563   ACACACCACTGACCTTTCCTTTCCATTCCCCCTTTCCATTCCCCCTTTTTT		1527	TAGAACCGAGCACGGCGCCTTGTA
1530   TACGTCGTGTGTGTGACACCGG     1531   GTTCGGGTCAATGTTTCGGGGAGA     1532   CCCTGTTGTGAAGGGGTTTTGTGA     1533   GGCAGATTGGTGAACCCCAGATAA     1534   CCCTCGGTGTGTTCAAGCCAAATC     1535   CCCGCGAACATTTGACACACTTAA     1536   CCGTGTAGTTGACACCTATAC     1537   TCCGTCTCAGCGCGCTCCCTATCC     1538   ATAGCTGGGTCACCACAGGCGGTC     1539   ATAGCTGGGTCACCACAGGCGGTC     1540   TTAGAAGCCGGTGTAGCACAGCG     1541   TGCCGACCTTTACCAGGATCCTCG     1542   GCCCACACTATACCAAGCTGGCA     1543   TTGCGCACTTACCAGGATCCTCA     1544   CTTGCAGTTTATGCTGACCCGTC     1545   TGCTCCAAATTACTTACCGCCGT     1546   CCCGTATGCGGAACCTTCAGTT     1547   TCGTTCAACCCCACACTTCAGTT     1548   CAATGTGGGGACATTCAAGGTT     1549   TAGCGTCGCACAATTACTGACCCG     1550   GGTGGCTTCGTGACAATTACGGCC     1551   CAGCGCGTCCGAAATTGCGCC     1552   GGCTGCTCGTAATTACGGCC     1553   ATGCGAGGAGACAATTGCGCC     1554   CAGCGCGTCCGAAATTGCGCCC     1555   GGTGCCTCGTTTTTGATTGCA     1556   GGTGCTTCGTGACAATTACGGCC     1557   CAGCGGGGTCCGAAATTGGCTTCC     1558   ATGCGAGGAGACCACCCGGGAA     1559   ATTTCACTACGACCCACGGGAA     1559   ATGCGAGGAGACACCCCCTGT     1550   GGTGCCACGAATTGAGCTCC     1551   CAGCGCGAAAGGACACCCCCCGTG     1555   ACACATCCAAGTTTGACTGCT     1556   ACACATCCAAGTTTGACCCCCTTTTT     1561   GGCGACTACATCCCCAATTCCTTT     1562   GCAGAACCCGGAAATCGCTT     1563   ACACATCCCAATTCCTTT     1564   CTGCTGGCGCCCAAACCTTTT     1565   ACACATCACAACCCCACATTCCTTT     1566   GCAGAACCCACATTACCTTT     1567   GCAGACCACCGGCCTTTCCATACTTTT     1568   ACACACACATGAACCTTCCATTCTTT     1569   ACACACCACATGACCTTTACCTTC     1560   GCAGAACCCCAAAACCTTTTT     1561   ACACACCACTGAACCTTTTT     1562   GCAGAACCCACAAACCTTTTT     1563   ACACACCACATGACCTTTTTT     1564   CTGCTGGCCCCAAACCTTTTT     1565   ACACATCACACCCAATTCTTTT     1566   ACACACCACTGACCTTCCCATTCTTTT     1567   ACACCCACATGACCTTCCCATTCTTTT     1568   ACACACCACTGACCTTCCCCCCTTCCATACTTTT     1569   ACACACCACTGACCTTCCCCCCTTCCATACTTTT     1565   ACACACCACTGACCTTCCCCCCTTCCATACTTTT     1566   ACACACCACTAGACCTTCCCCCCTTTTTTT     1567   ACACCACATGACCTTCCCCCCTTTTTTTTT     1568   ACACCACTT		1528	TTCGAGTAAGCTGGCAGGACCACT
1531   GTTCGGGTCAATGTTTCGGGGAGA   1532   CCCTGTTGTGAAGGGGTTTTGTGA   1533   GGCAGATTGGTGAACCCCAGATAA   1534   CCCTCGGTGTGTTCAAGCCAAATC   1535   CCCGCGAACATTTGAACAGCTTAA   1536   CCGTGTAGTTGACACAGCTTAA   1536   CCGTGTAGATTGCTCCCTGGCACG   1537   TCGTCTCAGCCGCTCCCTATCC   1538   ATAGCTGGGTCACCACAGGCGGTC   1539   ATAGCTGGGTCACCACAGGCGGTC   1540   TTAGAAGCCGGTGTAGCACAGCG   1541   TGCCGACCTTTACCAGAGTTGCT   1542   GCCCACACTATACCAAGCTGGCA   1543   TTGCGCACATATACCAAGCTGGCA   1543   TTGCGCACATATACCAAGCTGGCA   1544   CTTGCAGTTTATGCTGACCCGTCC   1545   TGCCTCCAAATTACTTACCGCCGT   1546   CCCGTATGCGGAAGCTATGAGGTA   1547   TCGTTCAACCCCACACTTCAGTTG   1548   CAATGTGGGGGACATTCAAGTT   1549   TAGCGTCGCACAAATTGCTGACCG   1550   GGTGCCTTCGTGACCAATTACGGCC   1551   CAGCGGCGTCCGAAATTGGCTGACCG   1551   CAGCGGCGTCCGAAATTGGCTCC   1552   GGCTTGCTCTGTTTTTGATTGCA   1553   ATGCGAGGAGACCACACCGGGAA   1555   GTGCCACGAAGGACCACCGGGAA   1555   GTGCCACGAGACCACCACGGGAA   1555   GTGCCACAGATCACACCACCGGGAA   1555   GTGCCACGGGACACACTCCCATGCT   1556   ACACATCCAAGTCTGACCACCGGAA   1557   CAGCCCGAAAGGACACCCCCCGTG   1557   CAGCCCGAAAGGACACCCCCCCGTG   1558   AACTGAATGAGGTGGCC   1559   ATTTCACAAGATCACAACCCCCCAGTG   1560   TGAGGAGAAACCCCCAAATTGCTT   1561   GGCGACTACATCCCCAATTCCTT   1562   GCAGAACCCCGAAACCCTCCTT   1562   GCAGAACCCCGAAACCTCCAATTCCTT   1563   ACAACCACATGAACGTGTAACCTTT   1563   ACAACCACATGAACGTGTAACCTTT   1564   CTGCTGGCGCCCAAACCTTTTT   1565   ACACCACATGAACGTGTAACCTTTT   1565   ACACCACATGACGTTCCCAATTCTTT   1563   ACAACCACATGAACGTGTAACCTTCTT   1564   CTGCTGGCCGCCAAACCTTTTTT   1565   ACACCACATGAACGTGTAACCTTGTTC   1564   CTGCTGGCCCCAAAACCTTCTTTT   1565   ACACCACATGACGTGTAACCTTGTTT   1565   ACACCACATGACGTGTAACCTTGTTT   1565   ACACCACATGACGTGTAACCTTGTTGCAACATTCTTTT   1565   ACACCACATGACGTGTAACCTTGTTT   1565   ACACCACATGACGTGTAACCTTGTTT   1565   AACCCACATGACGTGTAACCTTGTTTTT   1565   AACCCTTCTTTTGCCTTCCCCTT	5	1529	CTTTCGCAGGTTCGCAGACAATCC
1532 CCCTGTTGTAAAGGGGTTTTGTGA 1533 GGCAGATTGGTGAACCCCAGATAA 1534 CCCTCGGTGTGTTCAAGCCAAATC 1535 CCCGCGAACATTTGAACAGCTTAA 1536 CCGTGTCAGTTGCTCCCTGGCACG 1537 TCCGTCTCAGCTGCCACGG 1537 TCCGTCTCAGCTGCACAGGCGGTC 1538 ATAGCTGGGTCACCACAGGCGGTC 1539 ATAGGCAGCGGTTACCACACAGGCGGTC 1540 TTAGAAGCCGGTCTGGATTTGCGT 1541 TGCCGACCTTTACCAGGATCCCACAGCG 1542 GCCCACACTATAACCAAGCTGGCA 1543 TTGCGCCACTATACCAAGCTGCA 1544 CTTGCAGTTTATGCTGACCCGTC 1545 TGCCTCCAAATTACTTACCGCGT 1546 CCCGTATGCGGAAGCTTCAA 1547 TCGTTCAACCCACACTTCAGGTT 1548 CAATGTGGGGAACCTTCAAGGTT 1548 CAATGTGGGGGACAATTCCAGCT 1550 GGTGGCTTCGTGACAATTACGCC 1551 CAGCGGCGTCCGAAATTGGCTCCC 1552 GGCTTGCTCGAAATTACGCCC 1551 CAGCGGCTCCGAAATTGGCTCCC 1552 GGCTTGCTCCGAAATTGGCTCTC 1552 GGCTGCTCCGAAATTGGCTCTC 1555 GTGCCACGAAGCACCACTCCCCCCGTG 1556 CCTGTTCACCACACCACCGGGAA 1557 CAGCGCGAGGAGCACACACCGTTCC 1558 ACCATCCAAGTCTGACGACCACCGGGAA 1559 ATTTTCGACGATGGCCCCTTTCT 1560 TGAGGAGAAACCCCAACTTGCTT 1561 GGCGACTACACCACCAACTTGCTT 1561 GGCGACTACACCCCAATTGCTT 1562 GCACACCCAAATTGGCTCCTT 1563 ACACACCACAATTGGCTCCTT 1564 CTGTTCACCCAAATTGGCTCCTT 1565 ACCATCCAAGTCTGACGAATCGCTT 1566 GCGACTACACCCCAATTGCTT 1567 CAGCCCGAAAGCAACCTGCTTT 1568 ACCATCCAACTCCCCAATTGCTT 1569 GCACACCCCGAAATCGCTTT 1569 ACCATCCACAATTGCTTGCTT 1560 GGCGCCTTCCATACTTTT 1561 GGCGACTACACCCCAATTGCTTT 1562 GCACACCCCCAAATTGCTTGCTT 1563 ACAACCACATGACCTGTACCTCCAACTTTTT 1564 CTGCTGGCCGCCCTTTCCATACTTTT 1565 ACAACCACATGACCTGCAAACCTTTTTT 1565 ACAACCACATGACCTGTAACCTTTTT 1566 ACCACCCCCAAAGCTTTGCTTCCCATACTTTTT 1567 ACAACCACATGACCTGCAAATCTGCTT 1568 ACAACCACATGACCTGTAACCTGCTT 1569 ACAACCACATGACCTGTAACCTGCCAATTGCTTGCTGCCCCAAGCCTGTTGCTCCCAATTGCTTGC		1530	TACGTCCTGTGCTGTTGACACCGG
1533   GGCAGATTGGTGAACCCCAGATAA     1534   CCCTCGGTGTTCAAGCCAAATC     1535   CCCGGGACATTTGAACAGCTTAA     1536   CCGTGTCAGTTGCTCCCTGGCACG     1537   TCCGTTCAGCCGCCTCCCTATCC     1538   ATAGCTGGTCACCACAGGCGGTC     1539   ATAGCCAGCGGTGTAGCACAGCG     1540   TTAGAAGCCGGTGTAGCACAGCG     1541   TGCCGACCTTTACCAGGATCCTCG     1542   GCCCACACTATAACCAAGCTGGCA     1543   TTGCGCCACTAGTACGGATCTCAA     1544   CTTCCAGTTTATCGTGACCCGTC     1545   TGCCTCCAAATTACTACCGCCTC     1546   CCCGTATGCGGAACCTATCAGCTA     1547   TCGTTCAACCCCACACTTCAGTTG     1548   CAATGTGGGGACACTTCAAGTT     1549   TAGCGTCGCACACTTCAGTTG     1549   TAGCGTCGCACACATTGCGCC     1550   GGTGGCTTCGTGACAATTGCGCC     1551   CAGCGGCGTCCGAAATTGCGCC     1552   GGCTTGCTCTGTTTTTTGATTGCA     1553   ATGCGAGGAGGACACACCGTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGGATGCGACTTCC     1556   ACACATCCAAGTCTGACTTG     1556   ACACATCCAAGTCTGACTTGCT     1556   ACACATCCAAGTCTGACTTGCT     1557   CAGCCGAAAGGACCCACCGTGC     1558   AACTGAATGTAGGTGGCCCTTT     1569   TGAGGGAAAGCCTCCGTT     1560   TGAGGGAAACCCCACAGTTTCT     1561   GGCGACTACATCCCCAATTGCTT     1562   GCAACGCGCGCCTTCCATACTTTT     1563   ACAACCACATGACGTGTAGCTGCA     1564   CTGCTGGGCGCCCAAAGCTTGCTT     1565   ACACATCCAATGCTTCCATACTTTT     1566   GCAACGCGCGCCTTCCATACTTTT     1567   GCCGACAGGCGCCTTCCATACTTTT     1568   ACACACACATGACGTGTAGCTGCA     1569   TGAGGGAGACCCGAAACCTTGCTT     1560   TGAGGGAGCCCCAAACCTTGCTT     1561   GGCGACTACATCCCCAATTGCTT     1562   GCAACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACGTGTAGCTGCA     1564   CTGCTGGGCGCCAAACCTTGCTT     1565   AAGCCTTCTTTGGCTTGCTCCCCTT     1566   CTGCTGGGCGCCAAACCTTGCTT     1567   TGAGGGAGACCCCAAACCTTGCTT     1568   ACACACACATGACGTGTAGCTTCCATACTTTT     1569   ACACACACATGACGTGTAGCTGCA     1560   TGAGGGACCCCAAACCTTGCTTGCT     1560   ACACACCACATGACGTGTAGCTGCA     1560   TGAGGGCGCCTTCCATACTTTTT     1561   ACACACCACATGACGTGTAGCTGCA		1531	GTTCGGGTCAATGTTTCGGGGAGA
1534   CCCTCGGTGTGTTCAAGCCAAATC   1535   CCCGCGAACATTTGAACAGCTTAA   1536   CCGTGTCAGTTGCTCCCTGGCACG   1537   TCCGTCTCAGCCGCCTCCCTATCC   1538   ATAGCTGGGTCACCACAGGCGGTC   1539   ATAGCAGCGGTCTAGCACAGCG   1540   TTAGAAGCCGGTCTAGCACAGCG   1541   TGCCGACCTTTACCAGGATCCTCG   1542   GCCCACACTATAACCAGCGCAA   1543   TTGCGCACCTAGTACGGATCCTCAA   1544   CTTGCAGCTTTACCAGGATCCTCAA   1545   TGCCTCCAAATTACTCACCCGTCC   1545   TGCCTCCAAATTACTTACCGCCGT   1546   CCCGTATGCGGAAGCTATGGGCTA   1547   TCGTTCAACCCCACACTTCAGTTG   1548   CAATGTGGGGGACATTTCAAGGTT   1549   TAGCGTCGCACAATGGCTGACCG   1550   GGTGGCTTCGTACAATTCGCCC   1551   CAGCGCGTCCGAAATTGGCTCCC   1552   GGCTTGCTCTGTTTTTTATTGCA   1553   ATGCGAGGAGCACATTCCCC   1555   CAGCGGCGTCCGAAATTGGCTCC   1555   GTGCACGAGAGCACCGTTCC   1555   GTGCACGAGGAGCACCGTTCC   1556   ACACATCCAAGTCTGACGACCCTTTGCT   1556   ACACATCCAAGTCTGACGACCCTTTGCT   1556   ACACATCCAAGTCTGACGACCCTTTT   1566   ACACATCAAGTTAGGCCCCTTTT   1566   ACACATCAAGTAGCTGGCCCTTT   1556   ACACATCAAGTAGCTGGCCCTTT   1556   ACACATCAAGTTAGCTGCCCTTT   1560   TGAGGGAGAACCCCAAATCTTGCTT   1561   GGCGACTACATCCCCCAATTTCTTT   1562   GCAGACGCGGCCTTCCATACTTTT   1563   ACAACCACATGACGTGTAGCTGCA   1564   CTGCTGGGCGCCCAAAGCTTGCTT   1565   ACACACCACATGACGTGTAGCTTGCA   1566   CTGCTGGGCGCCCAAAGCTTGCTTG   1566   CTGCTGGGCGCCCAAAGCTTGCTTG   1566   ACACACCACATGACGTGTAGCTTGCT   1566   ACACACCACATGACGTGTAGCTTGCT   1566   ACACACCACATGACGTGTAGCTTGCT   1566   ACACCACATGACGTGTAGCTTGCT   1566   ACACCACATGACGTGTAGCTTGCTC   1566   ACACCACATGACGTGTAGCTTGCTC   1566   ACACCACATGACGTGTAGCTTGCTC   1566   ACACCACATGACGTGTAGCTGCTC   1566   ACACCACATGACGTGTAGCTTGCTC   1566   ACACCACATGACGTGTAGCTTGCTC   1566   ACACCACATGACGTGTAGCTTCC   15		1532	CCCTGTTGTGAAGGGGTTTTGTGA
1535   CCCGCGAACATTTGAACAGCTTAA   1536   CCGTGTCAGTTGCTCCCTGGCACG   1537   TCCGTCTCAGCCGCCTCCCTATCC   1538   ATAGCTGGCTCACCACAGGCGGTC   1539   ATAGCTGGCTCACCACAGGCGGTC   1540   TTAGAAGCCGGTCTAGCACAGCG   1541   TGCCGACCTTTACCAGGATCCTCG   1542   GCCCACACTATAACCAAGCTGGCA   1543   TTGCGCCACTATAACCAAGCTGGCA   1544   CTTGCAGTTTATCCGCCGT   1545   TGCCTCCAATTACTGACCCGTCC   1545   TGCCTCCAATTACTACCACCCGTC   1546   CCCGTATGCGGAACTATGACCACTTCAA   1547   TCGTTCAACCCCACACTTCAGTTG   1548   CAATGTGGGGGACATTTCAAGGTT   1549   TAGCGTCGCACACATTCAGTTG   1549   TAGCGTCGCACAAATGGCTGACCG   1551   CAGCGGCGTCCGAAATTGGCTCC   1552   GGCTTGCTCTGTTTTTGATTGCA   1553   ATGCGAGGAGGACACGACCGTTCC   1555   GTGCCACGAAGTCCACCACGGGAA   1555   GTGCCACGAAGTCCACACGGGAA   1555   GTGCCACGAAGTCCACAGTTGCT   1556   ACACATCCAAGTCTGACCTCGTG   1557   CAGCCCGAAAGGCACACGTTGCT   1558   AACTGAATGTAGGCCCCTGT   1558   AACTGAATGTAGGCCCCTGT   1559   ATTTTCACGATTAGACTGCCCTTT   1561   GGCGACTACATCCCCAATTGCTT   1562   GCAGACGCGGCCTTCCATACTTTT   1563   ACACCCCCAATGCCTCCTT   1564   CTGCTGGGCGCCAAAGCTTGCTT   1565   GCCACACGAGGCCTTCCATACTTTT   1563   ACACCCCACTGACGTTAGCTGCCAACCCCAATGCCTTCCTT		1533	GGCAGATTGGTGAACCCCAGATAA
1536   CCGTGTCAGTTGCTCCCTGGCACG   1537   TCCGTCTCAGCCGCCTCCCTATCC   1538   ATAGCTGGGTCACCACAGGCGGTC   1539   ATAGGCAAGCGGTGTAGCACAGCG   1540   TTAGAAGCCGGTCTGGATTTGCGT   1541   TGCCGACCTTTACCAGGATCCTCG   1542   GCCCACACTATAACCAAGCTGGCA   1543   TTGCGGCACTATAACCAAGCTGGCA   1544   CTTGCAGTTTATGCTGACCCGTCC   1545   TGCCTCCAAATTACTAACCAGGTCCC   1545   TGCCTCCAAATTACTACCGCCGT   1546   CCCGTATGCGGAAGCTATGGGCTA   1547   TCGTTCAACCCCACACTTCAGTTG   1548   CAATCTGGGGGACATTTCAAGGTT   1549   TAGCGTCGCACAAATTGGCTCC   1550   GGTGGCTTCGTGACAAATTGGCCC   1551   CAGCGGCGTCCGAAATTGGCTCC   1552   GGCTGCTCTCGTTTTTGATTGCA   1553   ATGCGAGGAGCACGACCGTTCC   1554   CCTGTTCACTACGACCCACGGGAA   1555   GTGCCACGAGAGCACCACTTCCC   1555   GTGCCACGAGAGCACCGTTCC   1556   ACACATCCAGTCTGACCACGGGAA   1557   CAGCCGAAAGCACCACCGTG   1558   AACTGAATGTAGCGCCCTGT   1558   AACTGAATGTAGCTGGCCCCTGT   1558   AACTGAATGTAGCTGGCCCTGT   1559   ATTTTCGACGATAAGCCTCCGTG   1560   TGAGGGAGAACCCGAAATCTGCTT   1561   GGCGACTACATCCCCAATTGCTT   1562   GCAGACGCGGCCTTCCATACTTTT   1563   ACAACCACATGACTGTACTTT   1564   CTGCTGGGCGCCCAAAGCTTGTTGCT   1564   CTGCTGGGCGCCCAAAGCTTGCTG   1564   CTGCTGGGCGCCCAAAGCTTGTTG   1564   CTGCTGGGCGCCCAAAGCTTGTTG   1565   AACCACATGACGTTACCTTTT   1563   ACAACCACATGACGTTACCTTTT   1564   CTGCTGGGCGCCCAAAGCTTGCTT   1565   AACCACACTGACGTTACCTTTT   1563   ACAACCACATGACGTTACCTCCAATCTTTT   1564   CTGCTGGGCGCCCCAAAGCTTGTTGCT   1565   AACCACACTGACCTGTACCTTTTT   1563   ACAACCACATGACGTTACCTCCCAATTGCTTGCTCCCCTTCCTT	0	1534	CCCTCGGTGTGTTCAAGCCAAATC
1537   TCCGTCTCAGCCGCCTCCCTATCC     1538		1535	CCCGCGAACATTTGAACAGCTTAA
1538		1536	CCGTGTCAGTTGCTCCCTGGCACG
1539		1537	TCCGTCTCAGCCGCCTCCCTATCC
1540		1538	ATAGCTGGGTCACCACAGGCGGTC
1541   TGCCGACCTTTACCAGGATCCTCG     1542   GCCCACACTATAACCAAGCTGGCA     1543   TTGCGCCACTAGTACGGATCTCAA     1544   CTTGCAGTTTATGCTGACCCGTCC     1545   TGCCTCCAAATTACTTACCGCCGT     1546   CCCGTATGCGGAAGCTATGGGCTA     1547   TCGTTCAACCCCACACTTCAGTTG     1548   CAATGTGGGGGACACTTCAGGTT     1549   TAGCGTCGCACAATTGCTGACCG     1550   GGTGGCTTCGTGACAATATCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTGTTTTTGATTGCA     1553   ATGCGAGGAGCACCGACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGAGTGCGACTGTTGCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGACACGATCGCT     1558   AACTGAATGTAGGTGGCCCTGT     1559   ATTTTCGACGATAGCTGCCGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACTGTAGCTGCA     40   1564   CTGCTGGGCGCGCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCGCT	15	1539	ATAGGCAAGCGGTGTAGCACAGCG
1542   GCCCACATATAACCAAGCTGGCA     1543   TTGCGCCACTAGTACGGATCTCAA     1544   CTTGCAGTTTATGCTGACCCGTCC     1545   TGCCTCCAAATTACTTACCGCCGT     1546   CCCGTATGCGGAAGCTATGGGCTA     1547   TCGTTCAACCCCACACTTCAGTTG     1548   CAATGTGGGGGACACTTCAAGGTT     1549   TAGCGTCGCACAAATGGCTGACCG     1550   GGTGGCTTCGTGACAATATCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTGTTTTTGATTGCA     1553   ATGCGAGGAGCACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGAGTGCGACTGTTGCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGACACGCTCCGTG     1558   AACTGAATGTAGGTGGCCCCTGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACTGTAGCTGCA     40   1564   CTGCTGGGCCGCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCGCT		1540	TTAGAAGCCGGTCTGGATTTGCGT
1543   TTGCGCCACTAGTACGGATCTCAA     1544   CTTGCAGTTTATGCTGACCCGTCC     1545   TGCCTCCAAATTACTTACCGCCGT     1546   CCCGTATGCGGAAGCTATGGGCTA     1547   TCGTTCAACCCACACTTCAGTTG     1548   CAATGTGGGGGACATTTCAAGGTT     1549   TAGCGTCGCACAAATGGCTGACCG     1550   GGTGGCTTCGTGACAAATTCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTCGTTTTTGATTGCA     1553   ATGCGAGGAGCACAGACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGAGTGCGACTGTTCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGCACGATCGCT     1558   AACTGAATGTAGGTGGCCCGTT     1559   ATTTTCGACGATAAGCTGGCCGGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACACCACATGACGTGACCTGCA     40   1564   CTGCTGGGCGCCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCCCTT		1541	TGCCGACCTTTACCAGGATCCTCG
1544   CTTGCAGTTTATGCTGACCCGTCC     1545		1542	GCCCACACTATAACCAAGCTGGCA
1545   TGCCTCCAAATTACTTACCGCCGT     1546   CCCGTATGCGGAAGCTATGGGCTA     1547   TCGTTCAACCCCACACTTCAGTTG     1548   CAATGTGGGGGACATTTCAAGGTT     1549   TAGCGTCGCACAAATGGCTGACCG     1550   GGTGGCTTCGTGACAAATTCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTCGTTTTTGATTGCA     1553   ATGCGAGGAGGACACGACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGGAGTGCGACTGTTGCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGAAAGCCTCCGTG     1558   AACTGAATGTAGGTGGGCCCTGT     1559   ATTTTCGACGATAAGCTGGCCGGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACGTGTAGCTGCA     40   1564   CTGCTGGGCGCGCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCGCT		1543	TTGCGCCACTAGTACGGATCTCAA
1546   CCCGTATGCGGAAGCTATGGGCTA     1547   TCGTTCAACCCCACACTTCAGTTG     1548   CAATGTGGGGGACATTCAAGGTT     1549   TAGCGTCGCACAAATGGCTGACCG     1550   GGTGGCTTCGTGACAATATCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTCGTTTTTGATTGCA     1553   ATGCGAGGAGGACACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGGAGTGCGACTGTTGCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGAAAGCCTCCGTG     1558   AACTGAATGTAGGTGGGCCCTGT     1559   ATTTTCGACGATAAGCTGGCCGGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACGTGTAGCTGCA     40   1564   CTGCTGGGCGCCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCGCT	20	1544	CTTGCAGTTTATGCTGACCCGTCC
1547   TCGTTCAACCCCACACTTCAGTTG     1548		1545	TGCCTCCAAATTACTTACCGCCGT
1548 CAATGTGGGGGACATTTCAAGGTT 1549 TAGCGTCGCACAAATGGCTGACCG 1550 GGTGGCTTCGTGACAATATCGGCC 1551 CAGCGGCGTCCGAAATTGGCTCTC 1552 GGCTTGCTCTCGTTTTTGATTGCA 1553 ATGCGAGGAGGACACGACCGTTCC 1554 CCTGTTCACTACGACCCACGGGAA 1555 GTGCCACGGAGTGCGACTGTTGCT 1556 ACACATCCAAGTCTGACGATGGCC 1557 CAGCCCGAAAGGAAAGCCTCCGTG 1558 AACTGAATGTAGGTGGGCCCTGT 1559 ATTTTCGACGATAGCTGGCCGT 1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCCGCAAAGCTTGTTG		1546	CCCGTATGCGGAAGCTATGGGCTA
1549   TAGCGTCGCACAAATGGCTGACCG     1550   GGTGGCTTCGTGACAATATCGGCC     1551   CAGCGGCGTCCGAAATTGGCTCTC     1552   GGCTTGCTCTCGTTTTTGATTGCA     1553   ATGCGAGGAGGACACGACCGTTCC     1554   CCTGTTCACTACGACCCACGGGAA     1555   GTGCCACGGAGTGCGACTGTTGCT     1556   ACACATCCAAGTCTGACGATGGCC     1557   CAGCCCGAAAGGAAAGCCTCCGTG     1558   AACTGAATGTAGGTGGGCCCTGT     1559   ATTTTCGACGATAGCTGGCCGGT     1560   TGAGGGAGAACCCGAAATCTGCTT     1561   GGCGACTACATCCCCAATTGCTTG     1562   GCAGACGCGGCCTTCCATACTTTT     1563   ACAACCACATGACTGTAGCTGCA     40   1564   CTGCTGGGCGCGCAAAGCTTGTTG     1565   AAGCCTTCTTTGGCTTGCTCCGCT		1547	TCGTTCAACCCCACACTTCAGTTG
1550 GGTGGCTTCGTGACAATATCGGCC  1551 CAGCGGCGTCCGAAATTGGCTCTC  1552 GGCTTGCTCTCGTTTTTGATTGCA  1553 ATGCGAGGAGGACACGACCGTTCC  1554 CCTGTTCACTACGACCCACGGGAA  1555 GTGCCACGGAGTGCGACTGTTGCT  1556 ACACATCCAAGTCTGACGATGGCC  1557 CAGCCCGAAAGGAAAGCCTCCGTG  1558 AACTGAATGTAGGTGGGCCCCTGT  1559 ATTTTCGACGATAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGACTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG		1548	CAATGTGGGGGACATTTCAAGGTT
1551 CAGCGGCGTCCGAAATTGGCTCTC 1552 GGCTTGCTCTCGTTTTTGATTGCA 1553 ATGCGAGGAGGACACGACCGTTCC 1554 CCTGTTCACTACGACCCACGGGAA 1555 GTGCCACGGAGTGCGACTGTTGCT 1556 ACACATCCAAGTCTGACGATGGCC 1557 CAGCCCGAAAGGAAAGCCTCCGTG 1558 AACTGAATGTAGGTGGCCCCTGT 1559 ATTTCGACGATAAGCTGGCCGGT 1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCCAAAGCTTGTTG	25	1549	TAGCGTCGCACAAATGGCTGACCG
1552 GGCTTGCTCTCGTTTTTGATTGCA 1553 ATGCGAGGAGACACGACCGTTCC 30 1554 CCTGTTCACTACGACCCACGGGAA 1555 GTGCCACGGAGTGCGACTGTTGCT 1556 ACACATCCAAGTCTGACGATGGCC 1557 CAGCCCGAAAGGAAAGCCTCCGTG 1558 AACTGAATGTAGGTGGGCCCTGT 1559 ATTTTCGACGATAGCTGGCCGGT 1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTCCTCC		1550	GGTGGCTTCGTGACAATATCGGCC
1553 ATGCGAGGAGACACGACCGTTCC  1554 CCTGTTCACTACGACCCACGGAA  1555 GTGCCACGGAGTGCGACTGTTGCT  1556 ACACATCCAAGTCTGACGATGGCC  1557 CAGCCCGAAAGGAAAGCCTCCGTG  1558 AACTGAATGTAGGTGGGCCCCTGT  1559 ATTTTCGACGATAAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGTAGCTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG  1565 AAGCCTTCTTTGGCTTCCGCT		1551	CAGCGGCGTCCGAAATTGGCTCTC
1554 CCTGTTCACTACGACCCACGGGAA  1555 GTGCCACGGAGTGCGACTGTTGCT  1556 ACACATCCAAGTCTGACGATGGCC  1557 CAGCCCGAAAGGAAAGCCTCCGTG  1558 AACTGAATGTAGGTGGGCCCCTGT  1559 ATTTCGACGATAAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGTAGCTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG  1565 AAGCCTTCTTTGGCTTGCTCCGCT		1552	GGCTTGCTCTCGTTTTTGATTGCA
1555 GTGCCACGGAGTGCGACTGTTGCT 1556 ACACATCCAAGTCTGACGATGGCC 1557 CAGCCCGAAAGGAAAGCCTCCGTG 1558 AACTGAATGTAGGTGGGCCCTGT 1559 ATTTTCGACGATAAGCTGGCCGGT 1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTGCTCCGCT		1553	ATGCGAGGAGGACACGACCGTTCC
1556 ACACATCCAAGTCTGACGATGGCC 1557 CAGCCCGAAAGGAAAGCCTCCGTG 1558 AACTGAATGTAGGTGGGCCCCTGT 1559 ATTTTCGACGATAAGCTGGCCGGT 1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTCGCT	30	1554	CCTGTTCACTACGACCCACGGGAA
1557 CAGCCGAAAGGAAAGCCTCCGTG  1558 AACTGAATGTAGGTGGGCCCCTGT  1559 ATTTTCGACGATAAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGTAGCTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG  1565 AAGCCTTCTTTGGCTTGCTCCGCT		1555	GTGCCACGGAGTGCGACTGTTGCT
1558 AACTGAATGTAGGTGGGCCCCTGT  1559 ATTTTCGACGATAAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGTAGCTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG  1565 AAGCCTTCTTTGGCTTCCGCT		1556	ACACATCCAAGTCTGACGATGGCC
1559 ATTTTCGACGATAAGCTGGCCGGT  1560 TGAGGGAGAACCCGAAATCTGCTT  1561 GGCGACTACATCCCCAATTGCTTG  1562 GCAGACGCGGCCTTCCATACTTTT  1563 ACAACCACATGACGTGTAGCTGCA  40 1564 CTGCTGGGCGCGCAAAGCTTGTTG  1565 AAGCCTTCTTTGGCTTCGCT		1557	CAGCCCGAAAGGAAAGCCTCCGTG
1560 TGAGGGAGAACCCGAAATCTGCTT 1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTGCTCCGCT	,	1558	AACTGAATGTAGGTGGGCCCCTGT
1561 GGCGACTACATCCCCAATTGCTTG 1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTCCGCT	35	1559	ATTTTCGACGATAAGCTGGCCGGT
1562 GCAGACGCGGCCTTCCATACTTTT 1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTCCGCT		1560	TGAGGGAGAACCCGAAATCTGCTT
1563 ACAACCACATGACGTGTAGCTGCA 40 1564 CTGCTGGGCGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTGCTCCGCT		1561	GGCGACTACATCCCCAATTGCTTG
40 1564 CTGCTGGGCGCAAAGCTTGTTG 1565 AAGCCTTCTTTGGCTTGCTCCGCT	•	1562	GCAGACGCGGCCTTCCATACTTTT
1565 AAGCCTTCTTTGGCTTGCTCCGCT		1563	ACAACCACATGACGTGTAGCTGCA
	40	1564	CTGCTGGGCGCGCAAAGCTTGTTG
1566 TACCTGCTGCAGCAAGGCAT		1565	AAGCCTTCTTTGGCTTGCTCCGCT
		1566	TACCTGCTGCCTGGAGCAAGGCAT

	1567	GACGCCGCAGCCATGAGTGAGTGT
	1568	AGTTGGCCGCTTATTTTGCTCACC
	1569	AGGCGCACGGAGAACATTTGCCAA
	1570	CCAGGCGCCTTCGACAGATCCTCA
5	1571	GTGTCCCCTCCAGCTAGCCAGTTT
	1572	GACAACAAGCCAAGGTGACACGTC
	1573	CTACACCGCTCGTGACTCGGCAAA
	1574	TGGTGCCATCAAAGCACGTTGTAC
	1575	ACAATGCGTGTTGCGAAACGCATA
10	1576	TTGTCCAGCCATTGTATTTTGCGC
	1577	ACGAGAGATAGCGGACTCCTCCGA
	1578	AGCTTTGTCGTCAGGCGAGCTCTT
ĺ	1579	GACAGTCGGCGTGCAGTTTGTTGT
	1580	AGCTAGCGACGGCCAACTCACGTA
15	1581	CTCCTGTTCGGGGCCGTTACTGGT
	1582	ACTGACCGACGCAGTGCCACATAG
	1583	AGGTAGGGTCTGGTTTGACTCGCA
	1584	CCTCCATTTTAGCGCGTTGCCAAT
	1585	TTCTTAGGATCCGCGCACTCTTGG
20	1586	GTCGAAGGTGTCTACCGTGCGCAG
	1587	GTCACTCGGCGGCCCAATCACTCG
	1588	TCTCGGTCACCCGTCTTGACCCTT
	1589	GCCCTCGACGAACTCATCCTGAAC
	1590	TCCGGCGTACTCTGACACGGCGAT
25	1591	AGCCAAATGCTTTCGTGGTTCGGA
	1592	ACTCCACGCCGCATGTTGCTGTGA
	1593	GCTTCGAGTCGGTGGCATCTGTAT
	1594	GGTCTTGGGCCATCGACTTGCTGC
	1595	GGTATCGGACTGCACTAAGGGCAA
30	1596	AGCCCATGCGTTCCGGATGATTTG
=======================================	1597	GCCAGGGTTAAAAGTGATGGGCTC
	1598	GACGACGTGCTGGCTACGAAGGGG
	1599	TCCTATTGACCGTGCATCGTGATC
	1600	ACCCGCCTCGACTCCACAACTAAA
35	1601	GATGTGGATCACGACCTGCCAGTA
	1602	GTGCCATTGCCACCCATAATGCGT
	1603	TTAGCCTGTGCACCCAGTCAGGAG
•	1604	TCCGATGGGAGAGGCTGATCTCAC
	1605	CACTACTGAAGTGGCCTGGCGCTG
40	1606	TGCGGCCATAGCGATGTGATAGAT
	1607	GATTGCGCTTAACGGAGATGCACG
	1608	TCACGTTTGACAACGCCAAGCATT

!		
	1609	GCATTGTTTGCTAAAGGCGGCATT
	1610	AGTCGCTCTACGCGTGCAACGCTG
	1611	TAGCTCCATGGAGGTCCGAAAGGG
	1612	GACCGGTTGGACCTCACTGGCTTC
5	1613	AAGCCGGACAGTCAATGTGCGTAT
	1614	TGCCTCGCTGAGTTCTTCACCGTG
	1615	TCGTAGACCTTGCTTTTGGGCTCA
	1616	ACCGCTATGCGCCCTACAAAGCAT
	<b>1</b> 617	TAGCGTCACCGTAGCTTGGGGCAG
10	1618	CTCTCAGCAACTGATGGCACCGGA
	1619	AAAGGAAATGTGGTGCTGGTCGGC
	1620	CCGGCTTAGATGGAGAACAAGTGC
	1621	AAGTAAATCGCCTCGCCCAAACCG
	1622	TGGGCTGTTCAGCCTACCGGACGT
15	1623	GTTTCGGTTCAGCCATGGGCCTAC
	1624	GGCCAACATTTCTAGGGGAGTGCC
	1625	TTCTTCGTTGGGATTGTCCTCACC
	1626	TGCACATTGGGGTACGGATCTGAC
	1627	GGCAGTTAGACGGCAAACTGCAGG
20 .	1628	CGCGTCAGGCTATGAATGGCTCTT
	1629	GCTGAATGCAAACCTCGGAGCCAT
	1630	CGCTCTGGCGGATTCATTGTTTTC
	1631	TTTTCAATCAACCCTCCGGACGTA
	1632	GTGGTGGAGTCTGAAGCACGACAG
25	1633	AAACAGGTCCGGATGATGTCTGGA
	1634	GTACCGCGTGTACGCCACCGTTAG
	1635	TCCAACCTACATTTGCGGAAGGAA
	1636	GACGTACCGTCGTCCCGTGAGTTG
	1637	GGCAATCCTACAACCGACGCTGAT
30	1638	GGCGGCTGCAGGGTCTACATCGAG
	1639	ATACTACGCTGCAGCTGCGCGGC
I	1640	GGATCGCAATCCCTCCGATGACGA
	1641	TGGCCTTGCACGGGAGCCGAATCT
	1642	AGGTGCCGACGAAACGACGAATAT
35	1643	GCTGTTTCACCGTCGTCGTTGTTG
	1644	CGGTCCCAATGTTACAACCCAGAC
	1645	GCAATTCCAGCCACTTTTGACCAA
l I	1646	ACGGGCGAAAGCTCGGTACGGATA
	1647	CGACCCGACTTTTGCTTTCGAGTG
40	1648	AATTCAGTGTTTGCGTCATGGTCG
	1649	CCTGTATGAGGTTCTGGGTCGGCT
	1650	TGGCATACTTGGTGCAAACGCCGT

-		
	1651	TCGCCAGTACAGAAACATGCGGGC
l l	1652	CCCGCTGTTGCTCTCATCGTGGAG
1	1653	GCCACAATCTGACCCTGGGAATCA
	1654	GCTCAGTCTCGGAAGTTTCGGCTA
5	1655	CTTCACGGCCAACGACGGTCGAG
	1656	CGACAGTTCCGTCCGTCTTGAGGA
	1657	ACGGAGACGCAGTCGAAACGTCCC
· ]	1658	CATGCATCCGATTAAGGGGATCAC
<u> </u>	1659	ATTGCGGGAGTCCCTAGCTTTCTG
10	1660	GTGTGGAAGATGCAATTGGAACGG
	1661	ATACAACGGTAGGTGACAGGGGCG
	1662	GCCGTGGGAGTAAGGGTACAAAGG
	1663	GCACGTAGGTCGGCTACTACTCGG
	1664	ACTGTGATCTCTTGGGCAAAGGGC
15	1665	CATGCCTGAACAATCTCGCATCCC
	1666	GAGCCTGGCTCCACAGCTGTGCTC
	1667	CTTTCGATACCATCGTTGGCGATC
	1668	CCCGGAGGTGAGGCATTGAATATG
	1669	CTCATTCAGCTAAAAGCGGCTGGA
20	1670	GAAATGCCCTGGGGACTTTTTGCC
	1671	TTTGCCTTCACAACAGACGCAGCA
	1672	AAATCCCAAGACGTCGGGGCGTAT
	1673	CAACGGGCGGTAGCTAAACCGTAA
Į	1674	GGCCAACGACAATGCGAAACCTTC
25	1675	GACATCACGCAAAATCTCAGCGCA
	1676	ACGTTCCGTCCACAACCGTATGTT
	1677	GCTCATAGGTCTTCCGTAGCCCGT
	1678	GAAACGAGTCTCTCGCGCCCTAGA
	1679	CGGGACAGAGCAAGTTACATCGG
30	1680	TGACCGCTCGATACCAGGAGGGTG
	1681	CTGGCAATAAAGACCTTCCGACCA
	1682	TGCGCGACGTCATGTTGGTGATTA
	1683	GTTGGTTGTGGGAACACCCCGCT
	1684	TGTGGGTTCGGAAACACAGGAAGT
35	1685	GGAAAAACGGCAATTAGCCGAGT
	1686	TGGTGCGGAGTGCCCTCTATTGGG
	1687	AACCAACAGGCTGCAGCCCAGACT
•	1688	AAACAGATCCATCTGCACGCCAGG
	1689	GGAATACCGCGGCGATTATGGCTT
40	1690	TACTGTTCGCGGCAAACCGTCACT
	1691	GATCTCTCGTGGAGCACGTTTTCC
	1692	GGCATAGCAAACCTTGACCTCCAA

		T
	1693	ATCTGGGATTCGCGAGCCAATATC
	1694	CGATCAGGATATCATTTACGCCCG
	1695	ACGGTACCGAAACGGTCTCAGCGT
	1696	CTCCCATACCTGCGTTCTTACCGA
5	1697	GCACGAGAACCTAATTGTCGCACA
	1698	GCCACACGATCAAGACAGCGCATG
	1699	CCCGTTAACTCACGAGCGGTCAAT
	1700	AGAGAAGGTCATTGCCTGTCGGTG
	1701	CGGGCCCTCTTAAAGTAGAGCAGG
10	1702	ACATCGCGTCCGAGGGAGTTAGCG
	1703	AATGCCTAATCGAGCCAGCGGATC
	1704	CTCGATCTTTTAAACCGGCGCTT
	1705	CGTTCCTGGAAGGCAGGGTCTCAC
	1706	CCTGTGCTTACTATCGGCGATCCA
15	1707	GTTAGTCGCCCTATTGGCCTGGTT
	1708	CCGGTGAGATGACTGTAAATGCCA
	1709	CGTGGTTTAAAACATCGCGCTTCG
	1710	TAAGACGCAGAAGATGGGGTCCAC
	1711	CACCACAGCTTCTTTGTTCGACCC
20	1712	TCGGGTCCGTACCACCACTTTTGC
	1713	CCAAGCCCCGAGTACCGAAGATTT
	1714	TCCGTGATATGGTCGTGGCGCGGT
	1715	TGTCTGTGTCATGGCACCTCGCAT
	1716	AGGACTGCACTGTGCACGTCTGAT
25	1717	CCATCCTCATGTACAGCGCCGCTG
	1718	GTACCCGCGCCTTCCTCGACACAG
	1719	ACGGGTCCTGGTCGACTAAGGCTT
	1720	CGTATCGAAGGCGTGTACAACCGG
	1721	TGCCCGCCTTTATGCAACGCTCA
30	1722	AAACTTACGAGACGGCGGCTGCCA
	1723	AAGTCTGACAAACGGAACGGGTGT
	1724	TAAGCGCAGACCAAAGTATGCGGC
	1725	GCAGTTTTTCAGATCCTCCGCAAA
	1726	TCGGAAGCATTTACGCGATCTCAG
35	1727	CACAGAAACGGTTGAACGAACGCC
	1728	GCATGCTCAGATGGTCGTGCTCAC
•	1729	AAGGATTCTCGCTTCCGGCATGAT
•	1730	GGTGGGTAGCGCTGGTATGAAAA
	1731	ATTATTACGGGACCGAACCACGG
40	1732	GCGCGAGTGTCATGATGTTCACGT
1	1733	GACATTCGTGACTTGGTCGTCCGC
	1734	TCATTAGTGCAGGCACCGATCAAG

{	1735	GAGTTGTGCGGAGTCATCGGAGTC
	1736	GCCTTTACAGATTTGGCGGGCTAT
ĺ	1737	ATGGCGTTTGCGAAGTCGATACAG
	1738	TGCATCGGCCTCAATCAGAGAACT
5	1739	ACAATCATGGCAATCTGGCAAATG
	1740	GACGTGGAAGAGTGCAGATCAGCA
	1741	AGGGCAGGGACGGACAGTAAGTC
	1742	GCATAGGGCGAATCTAGTACGGGC
Į	1743	TCCGGCGCATCCTCATTAGCAACT
10	1744	TGGCCGCTTCCACTAATATTGGAC
ļ	1745	CCGGCGACGCTCTTGTCAATGA
	1746	CGAGCAACCCAAAAGGAAGCAGTA
	1747	GCGTATGATTCGGCAATCCGCCAG
	1748	AGTACCGCTACAACGCTGGTTCGC
15	1749	GGGCAGGCCAGGTCCACCTGAGAA
	1750	CCACTTCTGTGACCGAACCGTGCT
	1751	CCTGGTACCAGGCAGCAGTTGATT
	1752	TTAGGGTACCGTCGAGAGACGCCA
	1753	GGTTGCTTGTGCGCGTGAGGTAGT
20	1754	TGCTTCGACCGATGAAACTCGAAG
	1755	TGCCACCCATACTATGCCCAGTGG
	1756	TGTGCGGCAACGCGTGAAGACGTT
	1757	TGAGAGAAGCTGGCCTCGGATCAG
	1758	TATTGCGAATTCGAGTACGTGCCC
25	1759	CGAGAGGGGTTCCCCAGTGATCGA
	1760	TGCCTGGGGTGTCGTTCTAATTCT
	1761	GTGCGTCATTGTGGGTCATCCCAA
	1762	AGGGCTCCCAGCATACCAACGTTG
	1763	AACTAGCCGCACCTTTGTGCAGAG
30	1764	TTAGCCCAGCCCTTCAATGGGAAC
	1765	CGGCCTCGGTTGTACGGGTAGTCT
	1766	TCTTTGAGGCGCGGACCCGCATAT
	1767	GATGGTTCGCCCTTGTGTCGCAGC
	1768	GAGATTCAATACAGGCCGCGGGTC
35	1769	AGGGCGAAGGAAGGTTCCGTTTTT
	1770	CTCGACCCTGCCACTACTGGTTC
	1771	TGTTCCGCGGTCTACGCATTACTG
	1772	GAGACGACGTCCTACACCCGCTAA
	1773	AGATTGCGACAGCGACACGTGATT
40	1774	GATACCGTTGGGCATTTCTCGGTA
	1775	GATTGGGAGGCATTCAGCGACGGA
	1776	AGGAGGAAACGAGGGCGTAGGTTC

		,
	1777	GCCAAACAACGTCTGACGCCTAGC
	1778	TTTAATGCGGAAAGGATGCACGCG
	1779	TTATCGGCCGTTAAAATGGGATGG
	1780	CCTTGGATTCGTTCATCGCTAGCA
5	1781	AAGTGAACGTGCAGTGGTCTTCGA
	1782	TCCTTACCCCTCGTTCAAACGCCT
	1783	ATTCCTGAACCATGCATGGCCTGT
	1784	AGCGAGACGCTCGATCACGAACTA
	1785	GCTGGTCTGGCTCGCTGTTTAGAA .
10	1786	CGTGCGCGCATAAAGATAGGTCT
	1787	TCTGGCACTCACATCGGACAGTCT
	1788	ACCATTGGAGGACCACAGAGCTCC
	1789	TCCAGGGTCGGAGTACATGGCGGG
	1790	ATATGCCGTCGGATCGTACACGCA
15	1791	TGCTGGCGTCAACACTTCCCGATT
	1792	CAGGGCGGTGCGGTGAACTAGCCA
	1793	CATGGACTGCCGTACATCAGCTGG
	1794	CCGGCCATACGCTGGCAAGATTAC
	1795	AGCGGACACCTGTACTCTCCTCCA
20	1796	GGAGCCACACCAGTCGAAGATGGT
	1797	CGCCACCGGAAATTGAAAAGACTG
	1798	TGAAACGGATGTTGCTTCTTGACG
	1799	TTGAAGCGGTGAAGAGCCTGTCCT
	1800	CGAACCAAGCTGCATTGTCAGTGG
25	1801	GAGTCTGCGCTTGCAATCTTTGCG
	1802	GCTGGGTATAGTTGCCTGGCAATG
	1803	GCAGGCGTTCCATATTCGCAACCC
	1804	GCGCCAACTAATACCTCCACCGCG
	1805	TGGCGTTCAGTGCAACGCTGGTTA
30	1806	CAAAACTGACGGGTATGGGAGCGC
	1807	AGGTGTCGCTGGAACCCGACTTGT
	1808	CTTCCAAAAGCGCAATTGGCTTTG
	1809	TCGGGCTTCTCGCAATTCTGTCAG
	1810	GCCAAAAGAATGCGCTGGGTAGGT
35	1811	TGGTGCCCGCACCGAGAGACTGTA
	1812	CGAGGCCGTAGTGGGGACTGCTCT
	1813	CGATCTGCGCATAGAGGGGACTTT
	1814	TGTGCAATCGGCCTTCTCAGAGCC
	1815	GATCACCTGGACCGCTACCGTTTT
40	1816	ATGGGGAGTTAAGGACCCTGCACC
	1817	CATTGTGGACAGCCAATGGTGGCT
	1818	CCATCACCATGCCACGGTAAGATC

	1819	GCACCCGTGTCGTTGGTTAGCAAG
	1820	GGAGTGGGTTCCGCGAATTCACTG
	1821	GGGGATTTCCTTTCGCAGGCTCGA
	1822	CATTGATCATGTGCACTTGCACCA
5	1823	AGCAGCGCTGCGCTTGTTTCGGAT
	1824	CGAGTAACGCGGTTGCTTTGCGAA
	1825	TGGCCTGGAACATAGGTGGAACTC
	1826	CGCACACCAAGCGTTTATTGAGAA
	1827	TCACCTTCACAGTGGGCATACAGC
10	1828	CAAATATCCCTGAGCCCTCGAGCT
	1829	GGGAGCTGGTGAGCAGATGTAACG
	1830	AGGATTGCTTTTGCGTTATGCGGA
	1831	ATCGTTTGGGCGCTACGCAATTGT
	1832	CCGATTTGTCCCAAATGCAACGTT
15	1833	AAGGGTCAAGCTCATGGAGCGGAA
	1834	TCTGACGTCGTTCAAGGGCTCGCT
	1835	CGCACCACTCCGAGGTATTTGTCT
	1836	AAGGGGTGAAAAAGGAGAAGCCGA
	1837	AAACCACGCAAATGGCGATACCAT
20	1838	CAGAAGGGATGACGCCTTAAGTCG
	1839	CATGACGAGAGCGGACCTGAAGTG
	1840	CTGGACATGTTTGTTTCGCCACTG
	1841	AAGACCGACTCTCGTCGTTTGCAC
	1842	GCGCGATTACATACCGTTTCCGTA
25	1843	CACTGACCGGACCCAACCTAACAT
	1844	AGTGCAAGTCTAGACACGCCCGAG
	1845	GGTTGGTGCGAGATCCTGGACTGT
	1846	GGTCGTCCCGAAACGTAAACGAGG
	1847	GACTAGTACGATCACGGGGCGGGT
30	1848	CCGACCTGACCCTGTGTACAGGTT
	1849	TGCTCACTGCCCACACTGTTATGG
	1850	CGAGGAAACACATTTCTTCGGGCC
	1851	TGGCACCGGGTGGATTCTTGTCTA
	1852	GAGGCACGGTGATAGTGGTTGTGC
35	1853	ATGCAGATGGATCTTTTTCGACGC
	1854	TGCGATAGCCAAAGAGTCGAGGAC
	1855	ATGGCGTGTCAGCGAACTGCCTGG
. !	·1856 · `	CAATGCAGCTCGGAAGTCAGGTCG
	1857	AGGATCAGTGCACATGTCCCCTCA
40	1858	CACATCTTGGCTGTCACCCGAGAA
	1859	CGCATTATCACCTCAATGCCAGTG
	1860	ACATCCGCAGACTCCCTATAGCCC

	1861	GTGAACCCGAACGAGGGGAGTCTC
	1862	GCGTAGGGAATTTGCCTCACGACT
	1863	TTTACGCGTCGCTCGGTTGTAGTG
	1864	GAGAGGCGTCTAGGCGGTTCTAGC
5	1865	GCATGCTGATAACGAATGCTTCCC
	1866	CTGAAGCTCGTGTGCGATGAGGGA
	1867	ACAACGGCATGAGGAGGCTTTTTC
j	1868	TTTGGAGACGCCAGTACGCGTGGT
	1869	GCTATCATTTGGTGTAAGCCCGCC
0	1870	TCAACATCCAGGGCGGTGCTTGGT
	1871	TTCGATGTAATCCCCAAAGATGCC
į	1872	GGACCTTCGGCAGGTTATCGCCGT
	1873	AGTAAGAAGAGGCAGGCCCACCT
Į	1874	AACGGCTCCCCGTCGTACTGCTTA
15	1875	CCTATACCGTCGTGGTTCCACGTT
	1876	CCGCGCAGGCGCTAATACTCAAGG
	1877	AAATGGGCCAGTGAAATCCTTGGT
	1878	ACGGTTTCGAATACTGCTGGGCAG
	1879	CCGCTTGAGGTTCAGGTCAGAGCT
20	1880	ATCGTGCCCGAAGACACTTAAACG
	1881	ACCTGAACCAGGGCGATTGCTTTA
	1882	ACCCTATACGCTGGGCTAAGCGGG
	1883	TGTTTCGCGACTAGAAGCCTTTGC
	1884	GAAGTTGGCGGCTCACCCGTATTA
25	1885	TGGCTACACCGCTTAGGAGGAACC
	1886	CCACAGTTGCGTGACTTACATCGC
	1887	ACTGCCACTGCGTCTGAAGAGTGG
	1888	GCGCCAGCAAATTTCGTGTGGTGT
	1889	TGCCTCCGTCGAGCCGAATAGCCA
30	1890	GTACAAACGGCCCCTATTTCGTCC
	1891	GCTTCCCTGGCTCTGAACGGAAAC
	1892	CGGCTACCCAGGCAGATAAGCTGA
	1893	GGTTGGACCCGACAGGGAATTTCC
	1894	GGGGAATACCCGGCGTTTGTAATA
35	1895	TGGTTCGGTGAGGTTATGTTCGGT
	1896	TCGGTAGGGTTCAGTCGCTGAGGA
	1897	TTCGGAGTGTGCCGGTGCTAGTAC
	1898	TCGTACTGGAATGATGGCCGGGCC
•	1899	TCCGTCGACCGTCCAGCGAAGTTT
40	1900	AGGGAATATAACAACACCGCGCAC
	1901	ATGTCCCGGAAACCAGCTACCTCA
	1902	ACCAGCGACTTAGATAGCCGTCCG

	1903	GGAAAACCTCCTTTGCGTCAACCA
	1904	ACGTGCGTGCATACCCAAGAGGAC
	1905	ACGCCACTTTCCCTAGAACCAACG
	1906	CGAAGTACGCAATAGTGCCACCCT
i	1907	GATCCCGGCGGATCACCTATCAAT
	1908	AGAAAGCGACCGTTTCAGGCTAGC
	1909	CGCTCCCTTTCATAGTCCTCTCCG
•	1910	GTGGGTGGTCATAACGACAGCAGA
	1911	CTGGAGGCTGCATCGTTCGTAACA
0	1912	CACCATGAGTTTCGGAGCGAGGAT
	1913	CAAGCTGCGTTCGATGAGAGATTG
	1914	CCTGGGAGCAATGACCGCTCTGGT
	1915	TCCGGCGCTCTACCAAGATGAGAC
	1916	CGACCGCGTCGCGTATACTATCCG
5	1917	AACATTCGCTAGTGGGGTCCAACA
•	1918	TGTATGATCATCCGACCGAGCAGC
	1919	AGTGCGCCGAGAGGGTGAATAGAC
	1920	AGGCTTGTTCTGGACCAGCACCAT
•	1921	GGGGCCACATAAAGAATTCCGAAC
20 .	1922	TGGTGAAGATAAATCCGCATGGCA
	1923	ATTTCCACCACGCTCTTGCCAAAT
	1924	CGCGTAAAGCTGTCACCGATGACC
	1925	TCCCCAACCGGTAACAACAGCGAC
	1926	CCTCTGCTCGCCTTACACCCATGG
25	1927	CAAGCTGCTCCTGTGCTGAAGGGC
	1928	AAACGAACGATGGTCGGTAGACCG
	1929	TCAGTTCGATGGCTATTGCGCCTC
	1930	GGCTCTCAACGGACGCAAATCATA
	1931	AGTAGAGTGTTGCGGCTGCCGATC
30 '	1932	AGACACTAGACCGCCGTGACCTGA
	1933	ACCGAGCACCGAATTTCCTTGTCC
	1934	CCGTGGCCAAGATACGAACGAATT
	1935	CCTCCTACAGCATCCACATGAGGG
	1936	CACTCGGCAAATACGTATGCGCAT
35	1937	ACCGAGTTGAAGCACGAATTTGGG
	1938	GACCACCTCGGAAGATCGTTCTGC
•	1939	TCAACTGGGCAAACGAAGAGCACA
	1940	GCTTAGCCTCACACGTGCATACCA
	1941	CTGCGGTCTCCAAGTACCATTTCG
40	1942	GTTCCGTATTACGGCGGCCATAAG
	1943	ATCGACGCAACCGGATAGTCTCTG
·	1944	CGCAGATAAACCGGCATCTTTCAG

1		
	1945	ACCTGCCAATACGGGTCTACGGTT
	1946	ACACCTGTTGCCATGCTGATCCGT
	1947	AAACTGTCTACTGCGCAATTCCGC
	1948	GCAACTAGCCCGTGCTAGGATCGT
5	1949	TCGTAGTGGTGGATTGTTGTGCGT
	1950	GGCTTACTCCTCAATTGCGACACG
	1951	CACGACTCCCTGCCAGATTTGATT
	1952	CTTAGACGTCGGCAATGTCACGTC
	1953	CTCAGAGCACAATCTGCCCTGCCT
.0	1954	GCTAGGAAAGTCGGCATTCATGGG
	1955	AAAGCCCCAAAATTCCGCCTAACC
	1956	GCGCAACGCTAAGGGACTATCAAG
	1957	CGTCCGCTGGGATGAGTCTCCTGC
	1958	ACAGGCCTCGTGATTGGTGTGGGT
15	1959	CATTCTCCTTCCGGGACCACGCCT
j	1960	TCGGAGTTGACCAAGCTCAGTGCG
	1961	ACGCGCCACTGCAATTGCAAACAC
	1962	AGTTCATGGAGCCGGCGTATTGTT
	1963	ACGTTTAATGCGGGGCCCGCCTAC
20	1964	TGAGGCTTTAGCCTACGCGCAGGT
	1965	CAGCGTTATGAGCGCGGAGTTTAT
)	1966	GTCCACGTGACCACGGATAGTTGG
ļ	1967	GATTATGCTCCTACGCCTGCTCCG
	1968	TCGTCAAGGGCATGATGTGTGGGA
25	1969	GATGGACCGCCAAAGACACCTTGA
	1970	TACACGAGGATGGGGTCAAGCTTT
	1971	ACACGCACAAACGTTTGAAAGGC
	1972	GTTATCGTGGGCCGATGGTACTGA
	1973	ACATGACCGTATCCGCCTGCTTCG
30	1974	GAAGGCGAACCACTGAAACTACGC
	1975	TGACTTTTGCAACGGGTGGAACCA
	1976	TGAATTCGTAGGTTTTGGGTGCGG
	1977	AGCATTTATGAAGCGGCCATTGCG
	1978	TGCTCCTCGCGTTGGTACCGTGAG
35	1979	CGCAGCAAGAAACAGCAACTGTTG
	1980	AGACGCTTGGAGTGAAAACTCGGA
	1981	CATTCGTAGAATGCCCCAAATGGA
	1982	CCAGAAGGTTCGGGACCCGTCGTG
	1983	GAGAAGCCGGTTCTCAGAGCACAT
40	1984	TTGCGTTGCAAGATATCTGGCCCG
	1985	GGGTTGCATGTTCAGGCAAGACGA
	1986	CTCACGAAGGTGACATATCACGCC

	1987	GCCCGAGATACGGGTTCAAAAAGA
	1988	CATCTTCGCGCTTCTTCACTCCGC
	1989	TTACACGGTAAGCGTACGGCCGCC
	1990	ACCTTCGGACAATGTGGCGTTCGC
5	1991	TGAATGGTTCTGCTAGGCCCACAC
	1992	CACGCCTGTCTGACATATGGATGC
{	1993	CGCCTCAACCCAATCTGAGAACGT
	1994	TTACGCTTACTGCGAGCTGGGTCC
	1995	GGCTTGTGGGGCAATACGCATCTT
10	1996	CACTCTCCTTTGGATGCGGAACAA
	1997	CTTCGAAGCACTTCAGACTTGGGC
	1998	GACCAGCCATCACGTAACGGCCCT
	1999	AGGAACCGGATGTGGTTATGGAGC
	2000	ATCCATGGGCAACTGAGCCTATGC
15	2001	GGAACAGCACTTGTTACCGCCCAC
	2002	TGGCTCGCTTCAAGCCTGTTTGCT
	2003	CAAACGTGAGGTCATGACCACCAT
	2004	ACCGATGTCTTGAAGTCCGGAGGT
	2005	CGAAAATGCATGATCTCCCCT
20	2006	TTTGGTATTCTCGCTGCACCGTTG
	2007	GCGTACTCAACCACATTCCCGACC
	2008	AGCAAACAACAGCGGTCCGAGCAT
	2009	GGACTAGGAGCGGGGATAGCTGAG
	2010	CCTTAACGAAAACCTGTCGACCGC
25	2011	CTCGATCGCATAAGCAAGAAACCG
	2012	CCCGTTGTTTGGGCGACAAAAGT
	2013	CGGCGCTCTCGCATGATCTCGTT
	2014	CGGATGGAGAGGAGTCTACGTCCC
	2015	ACCAAATCAGACTAGCGACTGCGG
30	2016	CAGAACAATATCGTGCGTCAACCG
	2017	CCTTTGCGCGCTCCGAGTAAGGTA
	2018	GGAAACGGCACCTATCTGTCGTGA
	2019	CGACCGACAAAACCAAATGCCGCC
	2020	CCAAGGGTGTGGGAGCTGAAGAGA
35	2021	TTAAGTGCGCATAGTCCTCGTGGG
	2022	GCCTGGTGGGGTAAGTCATGATGC
	2023	GAGCAGCAGATTGATGCGCTTATG
	2024	TGCGCCAACTTCCGGAATATTTGC
	2025	AACCCCATCATGAAATGCTCTCCG
40	2026	GTCCAACGGTACTGGCGTGATGTT
	2027	ACTCGGCTGATCGTGAGATGGTGA
	2028	ATTCGTGGGCGCATCTCGGAATGT

	2029	TCCCGTCCTGTAATCCAGGGAACA
	2030	CTTCGCTGCACCTACATTGCGCCA
	2031	GCGTGTAGATGACTGTGCTTTGGG
	2032	CTATGGTATCGAGACATCGGCGGA
5	2033	CCTCGTACTCCGTCGTATGCACAA
	2034	TGGTGCGTCGTAGTGCCTGCACT
	2035	CGCGATCCTAGTTGAAAGCTTTGC
	2036	ACGATCCAGGTGTTGGGCACTAAG
	2037	CCAATCTAGGATACACCACGCCCG
0 .	2038	GATACGTGGGGTATAGGCGGGCCC
•	2039	CATGGAACAACCGTCGTAGGGGA
	2040	ACACTCGCGCAGTATTCGAGTCGT
	2041	CTCAGTCTCGAAGGTGATCCGACC
	2042	TCCCAATCCCCGTGGTATCGTCGT
5	2043	AATCAACGTAGTTCCGGTGGTCCG
	2044	CTTAACAACCCAGGGGTTTGGGCT
	2045	CCATCCTGAGAGTGACGGAGGTGC
	2046	CTACCGCTGCATGGCGTTAGATTG
	2047	TTATTGGTGGCGGACGGAGTGAGT
20	2048	TTAAGGGTGAACTCAACCGCGTGA
ı	2049	TTTGATTGAAACGCTGCGCACTAC
	2050	TCATGTGTAGGTCGCGGCCGTCAC
	2051	CTCCGAACCTTCTGGGCCTCTTTT
	2052	CTGTTGCCCATTGGCCCGACACTC
25	2053	CACGATCGCTGAGCAACACATCAC
	2054	CGGATCATAAGCGTCCGCCTTCGT
	2055	AGGTTAACGCAACATGTGATCCGC
	2056	GGGAAAAACAGCTAAGCCTTGCGA
	2057	ACTTATTGCCGGGATCCGTACACA
30	2058	TGCGGTCTGGAAAGGAAGGGAGGG
	2059	GCTGCCACCTGGACATCGCATACA
	2060	GCAGGCATGACAGTGGCGTAGTAC
	2061	GCGGCCCTGATGGTTTGGCTGAGC
	2062	TCCCCATTTAGTCCCCTCCATCAC
35	2063	GCAACACAAATGCGAGCGTAGGAG
•	2064	GGCGTTTGTATTCGAGCCACGTAG
	2065	GGTAACGTCGCACGTGGAATTCCG
	2066	ACTTCACAACGCTCCGTTGGACAC
	2067	CCGAATTATAAAGCGCAAGGCACA
40	2068	GGACCCGATAAGACTCTGACGCCG
•	2069	ACCCGTTTCTCGTAGGAACCTGCT
	2070	CACGTTCGACTGTATCTGGTTGCC

İ	2071	CCTCGGATGGGCCCATGACCTTGA
	2072	GGACGCCTGCTGTAGGGGTTTGAT
	2073	CTCGAGCGTGGGCTAAAAGAGCAT
	2074	TTTACTTCTTAGGGCGCGTTTGGG
5	2075	ACCACCAACATAGCGCGCACTAGT
	2076	TGGTTACACGGCAGCCCGCGTAAG
	2077	TTATGGTACGTTGCTGCGGG
	2078	ACCGCGGATCTAACGAATCCCATT
	2079	CATGATCCCGCCCTTAGGTTAAGC
0	2080	TACCGCTTCAAAGGGTTGCCGAAT
·	2081	GCACCGCGTCAATATTACCGAGGA
	2082	GTGTCGCGGCTTTACAGAAGGAGA
	2083	GCAAGCCATACCGCAATAAACTCG
	2084	ATGAGGTCGTGCTGCGTTCACGAG
!5	2085	CGAGACTAGTGCCGATGCAGGGTA
	2086	GCCTCATCATAGACGCTGGATGCA
	2087	GACAGGCGTCGGTAAGCTCTCAAG
	2088	GCTACGAATCTTCCCTGTCGCCAC
	2089	TTTGGCAGAACGTACCAGTGGGGT
20	2090	GGACAATAAGCACCGGAGAATGCG
	2091	TCATGAACCTTCTGATGCCGCGAA
	2092	CGCCGCATTACCTTAAAAACGTGC
	2093	ACGAGTCCAACCGCCTCATTGATT
	2094	GCGAAGAGTTGCTACTCTTCCGCC
25	2095	CGTCGGCAACAATCTTTTTCGTGA
	2096	AATCCTGTGCACCCGTGAGACGCG
	2097	AACCTATATGCATCAACGCGAGCC
•	2098	GAACTTGGCAAAACAGCCCGGAAA
	2099	CTCTATGGCCGTTTGCCGTCTGCA
30	2100	AGTGCACCGGGTTGTGGACACAAT
	2101	CCTGGCTTTTCACACGCCAAGAAA
	2102	CACTCAGCGTAGCCTGAAGCCTGG
	2103	GAATTATCGACCGCAGCGGTGTCG
	2104	GTGACATCACATGGTGGCCGAGCG
35	2105	AGCACCTTGCCGAGTCACCAGTGA
	2106	TAGGTTGCAGGAATGGTGGGCACC
	2107	GTCCCATACGTGTGGTACGCGGAT
	2108	TCGGATACTCTCGCGTGCCACGGG
	2109	CAACGTTCGCCCCTAAGCCCAAAT
40	2110	GTTAGGTCACCGCGGCATATCCTA
	2111	GTTCACCGGCCTCTACTTGGGTTT
	2112	AATCCGCGTCTAGGTCATGTGGTC

	2113	GCTACGCCTCTGGAGGTGGTACCC
	2114	CAGGGAATGCTACAAAGGGTCCAA
	2115	AAGGGTTAGCTGCCCGGTTAACAG
	2116	CCTCGCAAGCGCGATATTTATGCC
5	2117	GCCTCCCGGTCATGGTCAAGGGAA
	2118	GCTGTTGAGCGGCGACCTGTGCAC
1	2119	CGCTGACTTAGCTCTGATGTGCCG
	2120	TTCATGGCATTCATCACGAAGGAA
	2121	TAGTGTTATGCCCGCGTGTGAATG
10	2122	CATGTAAGGGCACGGTCGTGGGCA
	2123	CAGGAAGCTCGCTCCGTGATGCAC
	2124	CCTGCTGATAGCAACCTCACTGCA
	2125	ACTACGAGGGCAGGGTCTAGGCG
	2126	CATAATGTGGGTGCTGACGCCGAT
15	2127	TAGCGAATCCACACAGAGCCGCTC
	2128	TCGCGAAATCCTAAATCCTGTGC
	2129	TGGCACGAATCAAGCCACCAACTC
	2130	GCGGACCGTCTTTGCTATCTGACG
	2131	AGGCCCGCCTTGTAATTGGTCAT
20	2132	CTGGTCCCATACGCCGCTGACTAG
	2133	TGCTAACTGCGGCCCTACAGAGTC
	2134	TGGTTTTATGTTCGGTAGCGTCCG
	2135	AGCTCAAACTTCTCCCACGGGATG
	2136	CGCGAAGATAGTGAAATCCGCATC
25	2137	GAGTGAAACCTCTCGCGGGTTGCA
į	2138	TCGAATGCTCTGCAGTGACGTCAA
	2139	AGGTGGCAATGATCGACGACCCTG
	2140	ACCTTAACACAGCCGACCAGGTGA
ļ	2141	GTCCGGAGCCGTGCAAAGCAATAA
30	2142	TCTGCCTGACTGCTACATGCTCCC
	2143	CTTTTGGGGATTAGAGGCCGACAA
	2144	GGCATAAAGGCTTCCGTTCCTGTC
	2145	GCGGACCGTAAAGCGGGCAGATAG
	2146	TTTCAAGAGTGCATCGAATCCACG
35	2147	CCGGCATCCCTTCTCGCTGTTGCC
	2148	ACACAGAGACGCGAACGGAGTGCA
	2149	AGCGGCATTCTCCCACTCGTTACT
	2150	GGAGCGTACTGCGCCTCGCAAGTC
	2151	AAACCCGAATGACACGGCAGATAA
40	2152	GGTCGGGTCCATATCCAAGTAGGG
	2153	AACCAGCGGATCGATAAAACGACA
	2154	GGTGTCCACCCGTTAACGCCGGTA

5

:0

25

30

35

40

2156         TCCCACGGCTATAGGTCCAACGAC           2157         ATCAACGAACGATGCCGTTAGGTG           2158         GAGGCTAAGCCGATTGGCCGAGGC           2159         ACGGTCCGAAATGGTTAGAGGCAC           2160         ACGCAAACCATTCCTCGAGTAGGC           2161         TTACACGCTCGCTATTGGGCCATA           2162         CTCGGCACGGGTTTAGAACGCCGG           2163         ATTCGGTAAGGTAGCG           2164         AGCACACCGTTATACATGACGGCG           2165         AGTCCCTGCCTTCGGCTCATGGAA           2166         GGGCTTATGACCAGTCAGGTTGGA           2167         AGTCACCACACGAGTCCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGGCATTTCTTAA           2170         GGGTCCAACGACGACCTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATTGTGG           2172         CCAGAGTATCCGCCGTTAGACGGT           2173         TCCTGCAGATCATCTCGTTCTGG           2174         TGCGGGAGCTTTCAACAAGCTGA           2175         TTAGACGCCGAGCTACACACGTC           2176         TTTCGGCAGAATCTCCGATTCAAC           2177         TGGCGAGCCAGCCTACAACACAGA           2178         GGCGAGCCTTTCGTGGGCCA           2179         TCTAGACCTGCTTTCTTCGTGGGCC           2181         TAATCACACCCGCTTTCTT		2155	AGCGCGACGTGGCTTGCCGTTAAA
2158 GAGGCTAAGCCGTATGGCCGAGGC 2159 ACGGTCCGAAATGGTTAGAGGCAC 2160 ACGCAAACCATTCCTCGAGTAGGC 2161 TTACACGCTCGCTATTGGGCCATA 2162 CTCGGCACGGGTTTAGAACGCCGG 2163 ATTCGGTAAGGTATCGGGCTAGCG 2164 AGCACACCGTTATACATGACGCGG 2165 AGTCCCTGCCGTTCGCTCATGGAA 2166 GGGCTTATGACCAGTCAGGAA 2166 GGGCTTATGACCAGTCAGGTTGGA 2167 GGTCACCACACGATCCGTCATGGAA 2168 TTGATCGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGGCATTCTTAA 2170 GGGTCCAACGAGTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAATTCCTTGGGGGCCATAGTGG 2173 TCCTGCAGATCATCTCGTTCTGG 2174 TGCGGGAGCATTCTCTGGTTCTG 2175 TTAGACGCCGAGCTTAGACGGT 2176 TTTCGGCAGATCTCCGATTCAAC 2177 TGGCGAGCATTCCGATCAAC 2177 TGGCGAGCAGACCTCCAAACACAGA 2178 GGCGACAGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGCCA 2179 TCTACACCTGCGTTTCGTGGCCCA 2180 GCCGAGCGTGGTACATCGGCCA 2181 TAATCACACCCGCTTTCTTGGCT 2182 GGCCGGAGCCATTGGACACTTCT 2183 CCTGTAGACCTGCTTTCTTTCTTCGTTGGCT 2184 GTGTTGTGTCCGCAAAATAAGCA 2185 ATCGCCGTTCCCGCAAAATAAACCA 2186 TGGATCAACCGGGTTTCTTTCTTTCGTGGCCAC 2187 AAGCCACGTTCCCGCAAAATAAACCA 2188 CCGGGAGCCATTTCGAGCACCTCTTCTTTCTTTCGTGGGCACC 2189 ACCGCGACCTTCCCGCAAAATAAACCA 2180 GGCAACCTGCCTTTCTTTCGTGGCCAC 2181 CTGTTAGACCTGCTTTCTTTCAGCTTG 2184 GTGTTTGTTCCCGCAAAATAAACCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCCACATGCTTTCTTTCAGCTTG 2188 CACGGCCACTTTCTTTCTTGAGCTG 2189 ACCGGCCACGTTTCTTCTTCACCTTTCC 2191 ACTCTTGGCTCTCCCCCAAAAAAAAACCA 2190 GGTAACTGGCTCCGCTTCACATCC 2191 ACTCTTGGCTCTCCCCCAAACAAAAAAACCA 2191 GGTAACTGGCTCCGCTTCACATCC 2192 GACCGAGGACCATTCTTCTTCCCCCCAAAATAAACCA 2190 GGTAACTGGCTCCGCTTCACACTC 2191 ACTCTTGGCTCTCCCCCAAACACCTCCCCCCAAAAAAAAA		2156	TCCCACGCTATAGGTCCAACGAC
2159         ACGGTCCGAAATGGTTAGAGGCAC           2160         ACGCAAACCATTCCTCGAGTAGGC           2161         TTACACGCTCGCTATTGGGCCATA           2162         CTCGGCACGGGTTTAGAACGCCGG           2163         ATTCGGTAAGGTATCGGGCTAGCG           2164         AGCACACCGTTATACATGACGGCG           2165         AGTCCCTGCCGTTCGCTCATGGAA           2166         GGGCTTATGACCAGTCAGGTTGGA           2167         GGTCACCACACGAGTCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGGCATTCTTAA           2170         GGGTCCAACGACTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATAGTGG           2172         CCAGAGTATCCGCCGTTAGACGGT           2173         TCCTGCAGATCATCTCGTGTCTGG           2174         TGCGGAGATCATCTCGTGTCTG           2175         TTAGACGCCGAGCTAGGCAACGTC           2176         TTTCGGCAGAATCTCCGATTCAAC           2177         TGCAGACAGACCGTACACAGAACAGA           2178         GGCGAACAGACCGTACACAAGAACAGA           2179         TCTAGACCTGCGTTTCTGTGGGCAC           2179         TCTAGACCTGCGTTTCTGTGGGCAC           2180         GCCGAGCGTGTTCCATACGTTCA           2181         TAATCACACCCGCTTTCTGTGGGCAC           2182         GGCCG		2157	ATCAACGAACGATGCCGTTAGGTG
2160         ACGCAAACCATTCCTCGAGTAGGC           2161         TTACACGCTCGCTATTGGGCCATA           2162         CTCGGCACGGGTTTAGAACGCCGG           2163         ATTCGGTAAGGTATCGGGCTAGCG           2164         AGCACACCGTTATACATGACGGCG           2165         AGTCCCTGCCGTTCGCTCATGGAA           2166         GGGCTTATGACCAGTCAGGTTGGA           2167         GGTCACCACACAGAGTGCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGGCATTTCTTAA           2170         CGAGTCCAACGACTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATAGTGG           2172         CCAGAGTATCCTGCGCTTAGACGGT           2173         TCCTGCAGATCATCCTGTGTCTGG           2174         TGCGGAGATTTGAACAAGCTGTA           2175         TTAGACGCCGAGCTAGACAGTC           2176         TTTCGGCAGAACCTACAAGACAGA           2177         TGGCGAGCAGACCTACAAGACAGA           2178         GGCGAGCAGACCGTTCCTGGGCCA           2179         TCTAGACCTGCGTTTCGTGGGACC           2180         GCCGAGCGTGGTACCATACGTTCA           2181         TAATCACACCGCTTTCTTGTGGCT           2182         GGCCGAGCCATTGGATCGCTG           2183         CCTGTAGACCTGCATAGAACA           2184         GTGTGTTTCTGCGTT		2158	GAGGCTAAGCCGTATGGCCGAGGC
2161         TTACACGCTCGCTATTGGGCCATA           2162         CTCGGCACGGGTTTAGAACGCCGG           2163         ATTCGGTAAGGTATCGGGCTAGCG           2164         AGCACACCGTTATACATGACGGCG           2165         AGTCCCTGCCGTTCGCTCATGGAA           2166         GGGCTTATGACCAGTCAGGTTGGA           2167         GGTCACCACACGAGTGCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGGCATTTCTTAA           2170         GGGTCCAACGACTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATAGTGG           2172         CCAGAGTATCCCCGTTAGACGT           2173         TCCTGCAGATCATCTCGTGTCTGG           2174         TGCGGGAGATTTGAACAAGCTGTA           2175         TTAGACGCCGAACTAGGCAACGTC           2176         TTTCGGCAGAATCTCCGATTCAAC           2177         TGGCGAGCAGACCTACAAGACAGA           2178         GGCGAGCAGACCGTTCCTGGGCCA           2179         TCTAGACCTGCGTTTCGTGGGCC           2180         GCCGAGCGTGGTACCATACGTTCA           2181         TAATCACACCCGCTTTCTGTGGGCT           2182         GGCCGGAGCCATTGGACCTTCTT           2183         CCTGTAGACCTGCATGGATCGCTG           2184         GTGTGTGTGTCTCGCGCAAAATAACGA           2185         ATCGCCGTT		2159	ACGGTCCGAAATGGTTAGAGGCAC
2162         CTCGGCACGGGTTTAGAACGCCGG           2163         ATTCGGTAAGGTATCGGGCTAGCG           2164         AGCACACCGTTATACATGACGGCG           2165         AGTCCCTGCCGTTCGCTCATGGAA           2166         GGGCTTATGACCAGTCAGGTTGGA           2167         GGTCACCACACGAGTGCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGCCATTCTTAA           2170         GGGTCCAACGACTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATAGTGG           2172         CCAGAGTATCCGCCGTTAGACGGT           2173         TCCTGCAGATCATCTCGTGTCTGG           2174         TGCGGGAGATTTGAACAAGCTGTA           2175         TTAGACGCCGAGCTAGGAACGTC           2176         TTTCGGCAGAATCTCCGATTCAAC           2177         TGCGAGACAGACCTACAAGACAGA           2178         GGCGACCAGACCGGTACATCAGCAA           2179         TCTAGACCTGCGTTCGTGGGACC           2179         TCTAGACCTGCGTTTCGTGGGACC           2180         GCCGAGCGTGTACATCGTTCA           2181         TAATCACACCGGCTTTCTGTGGGCT           2182         GGCCGAGCCATTGGACACTTCTT           2183         CCTGTAGACCTGCATTGGACCTTCTT           2184         GTGTGTGTCTCGCGTAAAATAACG           2185         ATCGCCGTTCCG		2160	ACGCAAACCATTCCTCGAGTAGGC
2163 ATTCGGTAAGGTATCGGGCTAGCG 2164 AGCACACCGTTATACATGACGGCG 2165 AGTCCCTGCCGTTCGCTCATGGAA 2166 GGGCTTATGACCAGTCAGGTTGGA 2167 GGTCACCACACGAGTGCCTGGTCT 2168 TTGATCGTGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGCATTCTTAA 2170 GGGTCCACACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCACCTCGTGTCTGG 2174 TGCGGAGCATTCTCGTGTCTGG 2175 TTAGACGCCGAGCTAGTGGACGTC 2176 TTTCGGCAGATCTCCGATTCAAC 2177 TGGCGAGCAGACTTCCAGTTCAAC 2177 TGGCGAGCAGCCTACAAGACAGA 2178 GGCGACCAGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACATCGGCCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCTTGGACACTCTTC 2183 CCTGTAGACCTGCATTCATCGTTCA 2184 GTGTGTGTCTCGCGTTGGGCAC 2185 ATCGCCGTTCCGCAAAATAAGCA 2186 TGGATCAACGGGTAGTACATCACGT 2187 AAGCGACGAGTGTTCTTCTGAGCTG 2188 CACGGGCACGTTCTCTTGAGCTG 2189 ACGCGACGTTGCTTCCCGCAAAATAACG 2191 ACTCTGGCTTTCTGAGCTG 2191 ACTCTGGCTTTCGCGCTTCCCCAACACACACCCCCTTTCCTTCC		2161	TTACACGCTCGCTATTGGGCCATA
2164 AGCACACCGTTATACATGACGGCG 2165 AGTCCCTGCCGTTCGCTCATGGAA 2166 GGGCTTATGACAGTCAGGTTGGA 2167 GGTCACCACACGAGTGCCTGGTCT 2168 TTGATCGTGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGCATTTCTTAA 2170 GGGTCCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGCTTTGAACAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGATCTCCGGTTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACCAGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGCAC 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCCTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGACCTG 2184 GTGTGTGTGTGCGTTGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGTACATACGTTC 2187 AAGCGACGATGTTCTTCTGAGCTG 2188 CACGGGCACGTTTCTTCTGAGCTG 2189 ACGGGCTGGTACAAGACAGA 2190 GGTAACTGGCTCCCCCTCCACATC 2191 ACTCTGGCTTTGCGGCAACGTACA 2192 GACCGAGGACCATTCGCCTCCCCATC 2193 AGTAGCTCTTGCGGCCAACCTTCCTCCCCCAACCTCCCCCCAACCTCCCCCCAACCCCCC		2162	CTCGGCACGGGTTTAGAACGCCGG
2165 AGTCCCTGCCGTTCGCTCATGGAA 2168 GGGCTTATGACCAGTCAGGTTGGA 2167 GGTCACCACACGAGTGCCTGGTCT 2168 TTGATCGTGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGCATTCTTAA 2170 GGGTCCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTG 2174 TGCGGGAGCTAGTGGACGGT 2175 TTAGACGCCGAGCTAGCGCATTCAAC 2176 TTTCGGCAGATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGC 2178 GGCGACAGACCTACAAGACAGA 2178 GGCGACAGACCGTCATCAAC 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCTGGTACCATCGGCCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGGACCTG 2184 GTGTGTGTCTCCGCAAAATAAGCA 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGTAGTGAAAACG 2187 AAGCGACGATGTTCTTTCTGAGCTG 2188 CACGGGCACGTTTCTTCTGAGCTG 2189 ACGGGCTGGACAAGACAGAC 2190 GGTAACTGGCTCCCCCAAAATAAACC 2191 ACTCTGGCTGTTGGCAACAACCGCTTGCCCCCAACAACCGCTTGCCCCCCCAACAACCCCCCTTTCCTTCC		2163	ATTCGGTAAGGTATCGGGCTAGCG
2166 GGGCTTATGACCAGTCAGGTTGGA 2167 GGTCACCACAGAGTGCCTGGTCT 2168 TTGATCGTGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGCATTTCTTAA 2170 GGGTCCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGCATAGTGACAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACGAGCCTACAAGACAGA 2179 TCTAGACCTGCGTTCGTGGGACC 2180 GCCGAGCTGTACCATCAGCCA 2181 TAATCACACCCGCTTTCTTGGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGATCGTG 2184 GTGTGTTCTCGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGTACATGACTG 2187 AAGCGACGATGTTCTTTAGACTG 2188 CACGGCCATGTTCTTTAGACCAC 2189 ACGGCCACGTTTCTTGAGCTG 2191 ACTCTGGCTTCCCCCAAAATAACCG 2191 ACTCTGCGTTTCTTGACTTC 2191 ACTCTGCGCTTTCCCCCCAACACCTCCCCCCTTCCCCCCCTTCCCCCC		2164	AGCACACCGTTATACATGACGGCG ·
2167         GGTCACCACAGAGTGCCTGGTCT           2168         TTGATCGTGTCTCCCGAAACCCTC           2169         ATTGTCGCGATCGGCATTTCTTAA           2170         GGGTCCAACGACTTCTCGCTGCTG           2171         CAAATTCCTTGGGGGCCATAGTGG           2172         CCAGAGTATCCGCCGTTAGACGGT           2173         TCCTGCAGATCATCTCGTGTCTGG           2174         TGCGGGAGATTTGAACAAGCTGTA           2175         TTAGACGCCGAGCTAGGCAACGTC           2176         TTTCGGCAGAACCTGCATCAACACAGA           2177         TGGCGAGCAGACCTACAGACAGA           2178         GGCGAGCAGACCTACAGACAGA           2179         TCTAGACCTGCGTTTCGTGGGACC           2180         GCCGAGCGTGTACCATACGTTCA           2181         TAATCACACCCGCTTTCTTGGGCT           2182         GGCCGAGGCCATTGGACACTTCTT           2183         CCTGTAGACCTGCATGGATCGCTG           2184         GTGTGTGTCTCCGCTAACACAC           2185         ATCGCCGTTCCCGCAAAATAAGCA           2186         TGGATCAACGGGGTAGTGAAAACG           2187         AAGCGACGATGCTTTCTTGAGCTGC           2188         CACGGGCACGTGTTCTACACTC           2189         ACGGGCTGGGACAGAGCTAGAAA           2190         GGTAACTGGCTCCGCTCTCACATC           2191         ACTCTGGCTGTTGCG		2165	AGTCCCTGCCGTTCGCTCATGGAA
2168 TTGATCGTGTCTCCCGAAACCCTC 2169 ATTGTCGCGATCGGCATTTCTTAA 2170 GGGTCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACAGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGCATCCACAGACCGC 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGAACACTTCTT 2184 GTGTGTGTGTCTCGCGTTGGGGCAC 2186 TGGATCAACGGGTACATAGCTG 2187 AAGCCACGGTTCCCGCAAAATAAGCA 2188 CACGGGCAGGTGTTCTTCTTGAGCTG 2189 ACGGGCAGGTGTTCTTCTTGAGCTG 2189 ACGGGCAGGTGTTCTTCTTCCCGCTTGCC 2190 GGTAACTGGCTCGCTTCCCCCAAAAACACG 2191 ACTCTGGCTTTCTTGCCGTTGCC 2192 ACCGAGCACGTCCTCCCACACCCCCTTCCCCCCAAACACCCCCCTTTCCCCCC		2166	GGGCTTATGACCAGTCAGGTTGGA
2169 ATTGTCGCGATCGGCATTTCTTAA 2170 GGGTCCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACCAGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGCACATCAGTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGACCTG 2184 GTGTGTGTGTCTGCGTTGGGGCAC 2186 TGGATCAACGGGTACATCGCTG 2187 AAGCCAGTTCCCGCAAAATAAGCA 2188 CACGGGCACGTTTCTTTGAGCTG 2189 ACGGGCACGTTTCTTTGAGCTG 2189 ACGGGCACGTTTCTTTGAGCTG 2191 ACTCTGGCTGTGCGAACGTACACC 2192 GACCGAGACCAGTCCTTCCCCCACATC 2193 AGTAGCTCTTGCGCTACCGCAACTCCTCCCCCACATC 2194 TTCTTGCCTGGGGGAACAGGCACGCACCCCCCCTTTCTCCCCCCACATC 2194 TTCTTGTCCTGGGGGAACAGAGCACGCCACCCCCCCTTTCCCCCCCACACCCCCCCC		2167	GGTCACCACGAGTGCCTGGTCT
2170 GGGTCCAACGACTTCTCGCTGCTG 2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTCCAACAGACAGA 2178 GGCGACAGACCTACAAGACAGA 2178 GGCGACAGACCGTCACACAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGGACACTTCTT 2183 CCTGTAGACCTGCGTTGGGGACC 2184 GTGTGTGTCTCGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTAGCTTGC 2189 ACGGGCTGGGACAAGAGACTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTCCCCCAACGCAACCCCCAACCCCCCCTTCCCCCCCC		2168	TTGATCGTGTCTCCCGAAACCCTC
2171 CAAATTCCTTGGGGGCCATAGTGG 2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGACCTACAAGACAGA 2178 GGCGACGAGCCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGCA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGCTACATCGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATTGGACACTTCTT 2184 GTGTGTGTCTCCGCTAGATCGCTG 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTTCAGCTGC 2189 ACGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTCCTC 2193 AGTAGCTCTTGCGGCCAACGTGAC 2194 TTCTTGTCCTGGGGGAACAGAC		2169	ATTGTCGCGATCGGCATTTCTTAA
2172 CCAGAGTATCCGCCGTTAGACGGT 2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACGAGCCGACCTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGCATACATCGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTCGCGTTGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGTAGTGAAAACG 2187 AAGCGACGATGCTTCTTGAGCTG 2188 CACGGGCACGTGTTCTTGAGCTG 2189 ACGGGCTGGGACAAGACTTCTCC 2191 ACTCTGCCTTGGCAACACTC 2191 ACTCTGCCTTTGGCGAACACCTCCCCCTCCCACACCCCCCCC		2170	GGGTCCAACGACTTCTCGCTGCTG
2173 TCCTGCAGATCATCTCGTGTCTGG 2174 TGCGGGAGATTTGAACAAGCTGTA 2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACAGACCGTACAAGACAGA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGCATACATCATCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGACACTCTT 2183 CCTGTAGACCTGCATTGACCTGCTT 2184 GTGTGTGTGTCGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTCTTGAGCTG 2188 CACGGGCACGTTTCTTGAGCTG 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCACATC 2191 ACTCTGGCTGTTGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTCCCCCAACGCAC 2193 AGTAGCTCTTGCGGCCTACCGCA 2194 TTCTTGTCCTGGGGGAACAGTG 2195 TTAGCAGGGAAGGTTGTCGGCTCAT		2171	CAAATTCCTTGGGGGCCATAGTGG
TITAGACGCAGACTTTGAACAAGCTGTA TTAGACGCCGAGCTAGGCAACGTC TTTCGGCAGAATCTCCGATTCAAC TTTCGGCAGAATCTCCGATTCAAC TTTCGGCAGACCTACAAGACAGA TTTTTTTCTCCTGGCAGACCAGAC		2172	CCAGAGTATCCGCCGTTAGACGGT
2175 TTAGACGCCGAGCTAGGCAACGTC 2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACCAGACCGGTACATCGGCCA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTGCGTTGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTTGAGCTG 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCC 2193 AGTAGCTCTTGCGGCAACGTGAC 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2173	TCCTGCAGATCATCTCGTGTCTGG
2176 TTTCGGCAGAATCTCCGATTCAAC 2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACAGACCGGTACATCGGCCA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTGCGTTGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGTAGTGAAAACG 2187 AAGCGACGATGCTTCTTGAGCTG 2188 CACGGGCACGTGTTCTTGAGCTG 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCC 2193 AGTAGCTCTTGCGGCAACGTGAC 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2174	TGCGGGAGATTTGAACAAGCTGTA
2177 TGGCGAGCAGACCTACAAGACAGA 2178 GGCGACAGACCGGTACATCGGCCA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTGCGTTGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGAAA 2190 GGTAACTGGCTCCGCTACAACC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTCCCCCCAACCCCCCCCCCCCC		2175	TTAGACGCCGAGCTAGGCAACGTC
2178 GGCGACAGACCGGTACATCGGCCA 2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2176	TTTCGGCAGAATCTCCGATTCAAC
2179 TCTAGACCTGCGTTTCGTGGGACC 2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTCGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCCACATC 2191 ACTCTGGCTGTTGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTCCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2177	TGGCGAGCAGACCTACAAGACAGA
2180 GCCGAGCGTGGTACCATACGTTCA 2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTGTCTGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2178	GGCGACAGACCGGTACATCGGCCA
2181 TAATCACACCCGCTTTCTGTGGCT 2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTCTGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2179	TCTAGACCTGCGTTTCGTGGGACC
2182 GGCCGGAGCCATTGGACACTTCTT 2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTGTCTGCGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2180	GCCGAGCGTGGTACCATACGTTCA
2183 CCTGTAGACCTGCATGGATCGCTG 2184 GTGTGTGTGTCTCGGTTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCC 2193 AGTAGCTCTTGCGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2181	TAATCACACCCGCTTTCTGTGGCT
2184 GTGTGTGTGTGTGGGGCAC 2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2182	GGCCGGAGCCATTGGACACTTCTT
2185 ATCGCCGTTCCCGCAAAATAAGCA 2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2183	CCTGTAGACCTGCATGGATCGCTG
2186 TGGATCAACGGGGTAGTGAAAACG 2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT	,	2184	GTGTGTGTCTGCGTTGGGGCAC
2187 AAGCGACGATGCTTTCTTGAGCTG 2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2185	ATCGCCGTTCCCGCAAAATAAGCA
2188 CACGGGCACGTGTTCTACGCTTGC 2189 ACGGGCTGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2186	· · · · · · · · · · · · · · · · · · ·
2189 ACGGGCTGGGACAAGAGCTAGAAA 2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2187	AAGCGACGATGCTTTCTTGAGCTG
2190 GGTAACTGGCTCCGCTCTCACATC 2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2188	·
2191 ACTCTGGCTGTTGGCGAACGTGAC 2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2189	ACGGGCTGGGACAAGAGCTAGAAA
2192 GACCGAGGACCAGTCCTTGCTCTC 2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2190	
2193 AGTAGCTCTTGCGGCCTAACGGCA 2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2191	
2194 TTCTTGTCCTGGGGGAGAGCAGTG 2195 TTAGCAGGGAGGTTGTCGGCTCAT		2192	GACCGAGGACCAGTCCTTGCTCTC
2195 TTAGCAGGGAGGTTGTCGGCTCAT		2193	AGTAGCTCTTGCGGCCTAACGGCA
		2194	TTCTTGTCCTGGGGGAGAGCAGTG
2196 TCGGGAGAGGGCCTTACCAAAACC		2195	TTAGCAGGAGGTTGTCGGCTCAT
L 2130 TOGGGAGAGGCOTTACCAAAAGC		2196	TCGGGAGAGGGCCTTACCAAAAGC

	2197	AGAACGTGGATTGTACGCTCCGCC
	2198	CTTCACAGCCTGGAGCCACCAATG
	2199	GAGATCGATGAAACGCACCAGCGG
	2200	GGGTCCAGAGTTGGTGTGGGATAA
5	2201	CCGTCCACCCAGATAGGAATCAC
	2202	TGCCTCGCTTCTGTGAATCTACGA
	2203	GATCACAGCGTCCGCGCATAACGG
	2204	ATGACGCCTTACATGACGCACCTT
	2205	GCGTGGAATAACGCCCTTAGTTCA
0	2206	GGTCTACCATTTCTCGCCCGACCG
	2207	ACACCTCTCTGGCGTAGACGCTCA
	2208	GTAGAGGTGCTCAGGACTCGTCGC
	2209	GTAAGCAGGAGGCGAA
	2210	TCTAAGGGCCGTTTCAATCGACCT
15	2211	AACCTGATTTCAGGGTCAGCCCGA
	2212	GTCACGCGATTGGCCCACCTATTA
•	2213	ACGATGCCGCGCATGTAACCTAGT
	2214	TGAGAGATGTCTCGTCAACGCCTG
	2215	GCATATCTCGCGGTGACAGACGAA
20	2216	TATCCTGGACCCAGCCTTGGAGGA
	2217	GACCCAACGTCGAAATTGTGCGAT
	2218	TGAAAATCGGGGCATCTAGTTTGG
	2219	CCGCGAAAAGGATTTGTGTACGCA
	2220	CATTCCATTTATCCGCAGTTCGCT
25	2221	CCTGTCTGTCGAGCCAGCGTCTAT
	2222	TCAGCGCGGCTAAACAAGTTATGC
	2223	ACGCCTACGAACGACCCAAGAGAG
	2224	TGCGCATCTACCATTGTGTGGATC
	2225	AAGTCCGCGCTCGCTCCTGTAATA
30	2226	GCTGGGTCATTGCTCGAGTAACCA
	2227	TGGAGCGTTCTGGCAATGACCGAC
	2228	CAAGTCAATTCTTGGCCAATTCGG
	2229	CGTTCATGCAAGGATCCCAGGTTA
	2230	ATGCCAATAGAAGCTGGGGATGCT
35	2231	CCTAACTCTCCCTTGAGGCCGTTC
	2232	ATCTCGGCGAAGGTTCCAAACATT
	2233	GCGACAGATTACGCTGCGGTTTTC
	2234	AAGCCCAGACGCCAACACGTTAC
	2235	TCAAGTTCAAATCACATCCCGTGG
40	2236	GATTGTCGTTCTGTGAGGCG
	2237	ACCGAACTATGTTCCGGCATGGCA
	2238	CGTCATCGGGTGTGCAATGCCGTT

		T
	2239	CGGACGGAGTCACGTTTGTGCACT
	2240	TAAACAAGTCGTGTGCCTTTGCCG
İ	2241	TAATTACTGGCCTGTGGAGCAGGC
'	2242	GGAGCGGCCGAATGGTGCTCTTA
5	2243	ACTAAGCAAGGCTTGGATGTGCGT
,	2244	GGCAGCTCAGCGGCAGTACGCTAC
	2245	GCGAGGCGAATTATCCGCGGATTT
	2246	CATACGACACCTTGGGGTGCTA
	2247	TGCTTGGGCTTTAAACCCCGTTTT
10	2248	CCGGTTGGAAAACGCAAATATCGG
	2249	AAACTAGCTAGCCGCACCCGCAAG
	2250	GTTGTTCCACCAGTGATCACGCAG
	2251	GCCGCTGACAAGATGATCATCGTT
	2252	CTTTCATAAAGCCAACCGATGCCC
15	2253	CTGACTGCATCTCGAAAGCGGGTG
	2254	ATTTCTTCGGAGAATCGGCCACGT
	2255	CATTTCGGGCCCTAGCTACTGCGC
	2256	CCGATCCCGCACATCCGTATCCTG
	2257	TATCACCGGGAGCGTCTTATCGTG
20	2258	TAGGGCTCGTGCACCGATTAGAGG
	2259	GCGTGGCACTCGCTTGTCTAGGTA
	2260	CTCAACGAACTCAAGGGCCGCTAC
	2261	AGCCTGGTATCGACCAATCCTGCA
	2262	TACGCGTTCTAGTTGGCCGGATCC
25	2263	TTTATGGGTTTGTGCCTGATGGGT
	2264	GGGACCCCTAGCAACGTCACCTTA
	2265	CTGCCTCCCAGGAGTCATTGGAT
	2266	AACCCCGCAAGACCAGTACCAATC **
	2267	GGTCACATACGCGCTAAAAAGCGC
30	2268	AAATGGCTCCGACCAGTTAGGGAC
	2269	AACGCGGCACGCTTAAAGGTGCAT
	2270	GATCGCACGCCGATTAACCTTACA
	2271	CCTCCTGATTGGGAGTGCGGAATT
	2272	CGGAGGGTAATAGGCTCCTCTGCG
35	2273	ACAAGAACTGGACATTACCGCGGG
	2274	TGTCGTCTTAAAGGCCTTTGTGCG
	2275	GGTGACCATGTGGCGTTTTAGCTT
•	2276	CACGGTTGCGCACGGTACCAGAAC
	2277	CCTTTATTGTTTGGTCCCCTGCCC
40	2278	GTGCGCCTGCATTCTACCGTCAAT
	2279	GTTTACGTTGATGGCTTGCCGCCG
	2280	CCGTCGGTGGTAGGACGTGAATGT

· .	2281	TGATCGCCCAGAATCCCTGTGCT
	2282	AAGCAGCCAAAAATCGGTTGCTTT
	2283	CGACGGGACTTAGTAGCAGGGCCT
	2284	CCGATTCGCGAAACGACCAAGTAG
5	2285	CCACCCAACTCCAATCTTTCTCA
	2286	GTGCAGTAGACGACTACCGGCGTC
	2287	TTCGCCCATCGTATCAAGCAATTC
	2288	GAATCGCGACTACCCGTCGGGTCA
	2289	CCAGCACTCGCCATCGGTTATAAT
10	2290	CGAACCGTAGAACTCCGGTCGGTG
	2291	GCACCATGACAGAGCCCCAGGATG
	2292	TGGGCTACCGCAGAATAAGGGTGA
	2293	TGGCCTGTCGTGTCGAAGGAAACA
	2294	GCCTCACCGATAGCGAGCGTTTGC
15	2295	GTGCGCGCCGGCTAAAACGAGACA
	2296	CCGCAGACGAGTTTCTTGTGACAG
	2297	GTTCGCAATCGCGTGCTAGGAAGC
	2298	TGTTGTACACATGCATCCGGTGAA
	2299	CACTGAACACGATATAAGGGCGCG
20	2300	CGCGATGGTTCTTAGCAAGACGAT
	2301	TACACCAAGGAAGAAATGGGGACG
	2302	CGTGCCTTGCGTTTTAGGTGCAGC
	2303	GTCGTTTGTCTGGGCATTAACGGC
	2304	CAGGCTCTCGTTCGGTACAAACGT
25	2305	CGGACACTGTTTCACCAGAACCCA
	2306	TACCCATGATGCGGAAGAAGCGTA
	2307	CTGTCCTTAAGCGGATGAGAACCG
į	2308	CGGGAGATGAGAACGGTTTTGTGC
į	2309	TAGATCGCGACTGTACTCAGGCCG
30	2310	TAAAACAGTTCGCGCGACTGTCGT
	2311	CGAGGAGCTCCACATAAGCCCAAT
	2312	TGGCTAGGGATGGGGAATCATCTT
	2313	AGGATTGGGTGCCTGGATGCATTG
	2314	TGTATCTACCGGCCTGAAGCAGGT
35	2315	TCCCTACGCGCATGACTCGCTTAC
	2316	TGGTCGATCACCTGTGACAGACGC
	2317	TGGGGGTAGTCCATGCATCAATTG
	2318	CCCTGCCAGGATTACTATTCCGGA
1	2319	TCCCGCACGGGGAATTTAAGTAGA
40	2320	GTGATGTGCAGGAACTTCTGTCGC
	2321	ATTTAGGCATGCATGCGCTTCTCA
	2322	TTCGGCGCTAGTGGACGCCGTCAA

_		
	2323	GAGCTTCATCTCATCAGTTCCGCG
	2324	GACAACTCCACTGCTCCAATCGCA
	2325	GGCCAAGGATGGACCTTACGATGG
	2326	GGTTCCGGAATTTGTCACCGCTTC
5	2327	GCGCTGGATAGTCTGCGAGAAGCC
	2328	TGAGTCCAGTGCTGCCACCATGAA
	2329	TTGAATTGGGTGTCGGAGCGTTCT
	2330	CGGCGGCAGACAATGCTTTGAAC
	2331	GGGTCTGTCAAAGAGGGTGTCTGG
10	2332	CTTTGTGCAAGACGAAGCACCCTT
	2333	ATCGAATTCCGAGGAGGTCTCCAT
	2334	TCCGACCCTCAGAGTCGACTCATT
	2335	ATCAACGGCCACCTCCTCGCCGAG
•	2336	AGCCACGGAATAATTCCGTCCACC
15	2337	GATCGCTTGCGTATCGCAAAGACT
	2338	TCCACGCCTTACCATCAACTGCAA
	2339	GCCAAGCGATAGGCCAGAACTCAG
	2340	AGCGTGTGGGTCATTTTAGCACGA
	2341	GTTATGCGCGGCTTACGAGTTCGA
20 .	2342	TCTGTCCACGTAACTTGCCTGCAG
	2343	TCGGCAGCCAATGATCATACCTCT
	2344	TAAGCCCGATCCGGTCCTGTGTTT
	2345	ACATGGCAGACTAACAGGCCTCGC
	2346	CATGGCTGCACTCTAAGTCGAACG
25	2347	TCTTCAACCCACGCGGAACGATTG
	2348	CTCGTGTCTCCAGAGGATTGTCCC
	2349	TGAAGGCATCAACCCAGAGGATTT
	2350	ACAGCTCGAAGGCAGCCACATTGG
	2351	ACAACGAGTACCGCGACAGAAGGG
30	2352	ATAACCGAAAAACCAGCCTGCGAT
	2353	ACAACTCAGCACTTTCGACGTCCA
	2354	CGGGTTACTGGGTATCACCAATGC
	2355	CATCGGTTATCGCTGCACGCGCGT
	2356	GAAGGAATCCCGGATAGTCCGTGG
35	2357	GCATGGTCTCAGCCAAAGAACCTG
	2358	AGCCTGCGACGTTTCCCGACAGAC
	2359	AAGAAAGGCGCACGGGATCGATAT
	2360	TGTCGCGAAGCCAACTTTCAGTAA
	2361	GCGGCATGCAAGGTAGGTCTGGAT
40	2362	GGTGGCCATCTCCTCGAATTGCAT
	2363	GCGTGCATAAGTTGCACATTGTGC
	2364	TTGAGGTAGCGTTTTCGCGCATAT

r		
	2365	ATCCCACTTGTGAGAGGGCGCATT
	2366	CGGTCAGCGAGCAGACATCAACCT
	2367	GCGTATCTTCGGGTCGAACACTTG
	2368	ATGCCATTGAACTCGCACTTTGCG
5	2369	CGATTCCCATCATAATGTGGGTCC
l	2370	CAATTTGGATAATCCAGCCACGCC
	2371	CGGCTTACCCTATGATTCCGTGCA
	2372	GGTGGACCATGCGCTGTGGTATGA
	2373	TATTTGTCGAAGATCGCAAGCGCC
10	2374	GTCAGTGGGTTTTGAGAGCCCGCA
	2375	AGGGGTCGGGAAATCTGACAAAA
	2376	TGCTTGCTATCCGAAAAAAGCAGG
	2377	TTATCGGATCAAATTCGGCTTCGG
	2378	TGCAGCAACGAGTTACCCGGACTT
15	2379	TATACATGTCCGGAGGGGCACCCA
	2380	TGCAAAACCGGAGGATGAACCCTT
	2381	TCGGTCTAATGTCCACGCAGACAC
	2382	ATGTGTTTGCCACGCGCTCCTATT
	2383	TGGCGAGGCACGGCTCTAATTCGG
20	2384	GCGACGACCGAGCGACTTTTACA
	2385	CTCAGAGAGTCTATCCGGCGCCCT
	2386	GGAACATCTCCTGGGTCCCTCAGA
	2387	GCAACGCAGGGAAGTACTTAGCGA
	2388	TGACTTGGGCGGACAAAGAAACGC
25	2389	AGATCATCGGGACGCTTCATGCTA
	2390	CCCTTCTGACCGCTAAGGCCATAA
	2391	CGTGAGCCGTGGGGTGTCTCTGTA, .
	2392	TACCTTGGTCGTCTCCGCTTTTGT
·	2393	TCGCCGCAAAATGCTACGTGAAAA
30	2394	GAGTGACCTAATGGCTGCCCGACT
	2395	AAAGGAACTTGGCCAACCCTATGG
	2396	TGTTTTCGCACTCACCTAATCGC
•	2397	CAATGGGTTTCATAAGGGCAGGCA
	2398	GCCTAACACACAAGGGTCCCTCTG
35	2399	CGTCATGCGGTCCGAGGATCGATC
	2400	CCACACGGGCACGGAGTAATATCT
	2401	CATCAGACATAGGTCGCGTGCCGA
	2402	AGATGAAACCAAGGGAGGACGCAG
	2403	GGCTACCCATAGGCTCAGCAGCAC
40	2404	GGCTTGTGAGGGTGTGTTCTCGAC
	2405	TGTGTTACGGCGAATGCAACAGTC
!	2406	CGATAACAGGTCGCGCCGTTACTA

_		
	2407	TGATAAAGTGAGGCTCCAGCGCGA
	2408	AATTGTGCACGGATCTGCACGGCG
	2409	GCCGATACTGAGCATTTCACTGCC
	2410	GCAATGTACTGTCACCAGTGGCGA
5	2411	GGCATATCGGTAACACTTGGTCGG
	2412	GGGTCTCAAACCAGCGTGGCCGCT
ļ	2413	GTCTCCGGGACCATTGAGCTGGAG
	2414	GGCCTTCGGCATTCAGACGGGTTG
	2415	CGTGATAGGCCACAGCGCTCAATT
10	2416	GGCAGGCCCGCGAGGATGATTAAC
	2417	CGGGTATGGTTGATAACAGCGTGG
Î	2418	ACGACGTCCTTGGGACCGTATTGT
	2419	CTGATATCGAGCCTGAGCCTTTCG
	2420	TCCCATTGGCCTGTATGCTGGCCT
15	2421	GTGTCGTCGATTGTTTCATCGACG
	2422	CGAAAGCCAGTAGCCGATTGCGTG
	2423	GGTTCGGCTTATTCCACTGCGACA
. ]	2424	AGCGAGGGCTAACTTTTAACGCG
	2425	CGGCGCTGATGACGGGACTCGATT
20	2426	TCACAGTGCTCGGCGTAAGGACTA
	2427	CCCATTACGAGCACACCATGGC
,	2428	GGCCGCTAATCTTTACGCATCACG
	2429	ACGGCTTCCTAGTGTCCAGCCCTT
	2430	CTGTCAGGTCCTACCCAATGGCTC
25	2431	CACAGCCCATCCCACTGAACTGCT
	2432	ACAAACGATACACGCAACGCTGTG
	2433	TGGCGGCCAGCTAGCAGGCGAAGT
	2434	ATCTCGAAACGATGCGTGCCTAAA
	2435	ATCTCGAGAACAGCGTGCGTGCGG
30	2436	GAAGAAATCCGCCGACATCTACGG
	2437	GCGGAGCAACCTTGGCTGTTTCTA
	2438	CGCGTTCCGAAGACTTGTTGTTTG
	2439	TGACCTGAAGCCCATCCATAAGCA
	2440	TGGTATTCATTCCGGATAAGCGGG
35	2441	GCGTTGCGGGTCATTGATGCAAAC
	2442	ACCGCTTTCTGTGTAGAGCCCTGA
	2443	CAAATAGACAATCGCAGCTTCGGG
	2444	TGTCCTGACAAATCAAGGTGCAGG
	2445	AAATTGCACTCGCGGAGATTTCCT
40	2446	TGACGCCCATTTCTATATGGTGCA
	2447	TGTTCCGACAGGGCACTGCTAGAC
	2448	TCGCTGGCTTGGGAAGGCCTTCGT

	2449	GTGCACCTCCGTTGGCGTAGAATG
[	2450	CTCATTTGGGACCGATCGGGTTGC
	2451	GCCAGTGTCTGTCAATGGATGGGA
	2452	TTGCCCGGCAGGTTCTGTGTAATG
5	2453	ACCCGCGAACCGAGACGCACTTCT
	2454	TCCGTGCGATTGGTCAAGGTTGAT
	2455	AGGGCGTCTCGGTTGAACCTCGGT
	2456	TGACCGTTCAAAGAGCAAGCCAAC
	2457	ACACTCACCTGCTGTCCCTGCTGA
10	2458	GCGTTTAACTCCTTGGGTGGTGGT
	2459	CGCCTGCGCAGGTAACTCTCCGCA
	2460	AATCGAATTTCCCAGCGGCTGTTT
	2461	AAGCAGGTGGGATCCTGGGGATCA
	2462	AATCCCAGACTCGCTCTTCGTGCT
15	2463	ACGGTTATAAGGGCCGGCTGCGAC
	2464	TACGAGAGCGGGCTTAGACGTCGC
	2465	GCGATTTTGACCCACGGTTATCGA
	2466	AGCTGTATAATTTGGATGGCGCGA
į	2467	TCCGCGAGTCTTAGCCGATTGAAC
20	2468	GGCATCAGCTCCGTAAGCCGATAG
	2469	TGTTATTGGCAGTTCGAGCGACAG
	2470	GCGAGCCTTTTTGCTTGGGAAGAG
	2471	AGAAGAAAGGTCAGCGTCGACGA
	2472	CGGGTCGACCCTTGAAGCATAACC
25	2473	CTCGGTTTTCACAAACTTACCGCG
	2474	GCAGTCCTATCCGGAGCCTGACAA
	2475	AAGGTGCGCTATTTGTTGTCGGTC
	2476	AGTGGAATCCATGCCGACACCTGA
	2477	TACAGGCGTAATTCCTGCGAGGGA
30	2478	CCGAAGTGCGAGAAGCACGTTGTT
	2479	AAGGACTGGTATGGCCGGAGCTTT
	2480	GGACACCGCCAACCTCATAGTTGC
	2481	AATGGTGTTCGCCTGGACTACCAC
	2482	TAGGAAAGCGTACACGGGAATCCG
35	2483	TCTCACCCAATGATGAGGACGTC
	2484	CGTGTCCGTGTGACACTGTCCATG
	2485	TCCAGGCTGTTGCGGATACGGTAG
	2486	GTAGGCAAAATGGTCGCGATCAAT
	2487	ATCTCCGTGGACCCGATTGTGACA
40	2488	GAATATGCCGTCAACGCTATGGGC
	2489	TTCCGGAAGCGTTTGGTAACTTTG
	2490	TTCGATAGGAATACCAGGGCCTGG

	2491	GGCCATTTGAGGAG
	2492	ACCTTCTGACCTGG
	2493	GACCAATCCGCAGT
	2494	TCGGCCACTCACCA
5	2495	AGCGCTCACATGTT
	2496	TAACGCAAAGGCGC
	2497	TGGGTGGGCCAAA
	2498	GTCCTCGAAAGGG
!	2499	CCCATCTGGTGGG
10	2500	GTGCGCGGTCTGC
	2501	TGTGTTGCCAACCC
	2502	CTGATGCTGTTCTC
	2503	AAGCTGCAAAAGGT
	2504	TCTGACGCGTGCT
15	2505	GAATTACTTGGAGG
•	2506	GATTCTTCCCGACC
	2507	CGCAGCGTATCCC
	2508	GAGATGGAATTGT
	2509	GATGCCTGGATCG
20	2510	GCAGCGACTGCTA
	2511	AGGGCTAATTTACA
	2512	AAGTGCACATCCTC
	2513	TCAGGCAGCCGTA
	2514	CCACTGGGGAAAT
25	2515	TTGTCCAAAGCCA
	2516	TGGGCGGAATAGA
,	2517	TAGAATTCGCCTCT
	2518	CATTACTTCCTGCA
	2519	GGAAATGCTAGCT
30	2520	GCCGCCACTTGCG
	2521	ACAATAGCGGACA
	2522	AGTTAGGCTCTCG
	2523	TGGGCCTGAGAAG
	2524	ACGCTCTGAGCGA
35	2525	CCTGGTGATCGTG
	2526	GCGTGTCCATTCG
	2527	ATCCTGAACGGCG
	2528	TTACGTTTCTCACC
	2529	GCCGTCTTGAGTG
40	2530	ATCTACGATGCGG
	2531	AACCAAGACTCGT
	0500	AACTCCCCTCCTC

2491	GGCCATTTGAGGAGGATTATGCAA
2492	ACCTTCTGACCTGGACTTTTGGCG
2493	GACCAATCCGCAGTTGAGCAACAG
2494	TCGGCCACTCACCATGAGTGTAGG
2495	AGCGCTCACATGTTCGAAAACGGG
2496	TAACGCAAAGGCGCGATCCTCGCT
2497	TGGGTGGCCAAATATTACTGCAA
2498	GTCCTCGAAAGGGGCATCCAAACA
2499	CCCATCTGGTGGGAGGCGTTATCA
2500	GTGCGCGGTCTGCAAACTCGCCAT
2501	TGTGTTGCCAACCCTAGGTCATCA
2502	CTGATGCTGTTCTCGTCGGTTGAC
2503	AAGCTGCAAAAGGTGAGCGTGGCA
2504	TCTGACGCGTGCTTGGGAGTCTAT
2505	GAATTACTTGGAGGCGCCGTGCAA
2506	GATTCTTCCCGACCTAGGTTGGCC
2507	CGCAGCGTATCCCATGTTGCTTGA
2508	GAGATGGAATTGTTCGCCCAAAGA
2509	GATGCCTGGATCGGTCTAGCGTCA
2510	GCAGCGACTGCTAAGCTATCTCGG
2511	AGGGCTAATTTACATCGCCTTGCC
2512	AAGTGCACATCCTCACGAAGCGAT
2513	TCAGGCAGCCGTAATTAAATGCGC
2514	CCACTGGGGAAATCGCACTGTTGG
2515	TTGTCCAAAGCCACCTACGACAGA
2516	TGGGCGGAATAGATTGGGTGTCTT
2517	TAGAATTCGCCTCTTCTAGCCGCC
2518	CATTACTTCCTGCAGATGCGATGC
2519	GGAAATGCTAGCTGGGGTAATCGC
2520	GCCGCCACTTGCGAATCTACATCT
2521	ACAATAGCGGACAGCTCGCCAGAT
2522	AGTTAGGCTCTCGGTGCGGTCCAT
2523	TGGGCCTGAGAAGCGGTTAATAGG
2524	ACGCTCTGAGCGACGCCTATCGTA
2525	CCTGGTGATCGTGTCCCAGACTCA
2526	GCGTGTCCATTCGCTTGAGGTTTC
2527	ATCCTGAACGGCGATGACCACCAC
2528	TTACGTTTCTCACCGATCAACGCC .
2529	GCCGTCTTGAGTGGCTAAAAGGCA
2530	ATCTACGATGCGGCTCGAAGTGTT
2531	AACCAAGACTCGTCCCCAAACGAA
2532	AACTGCGGTGGTGGAGGCAGGTGC

2543 AGTCTCAGTTCGGCGCAACGGTAG 2544 AACCTACAGTCGCCGCAATGCATT 2545 ATACACGTTTCAGCCGGCAACAAT 2546 ACGACGGGACGTGCCCTCGTTGAT 2546 ACGACGGGACGTGCCCTCGTTGAT 2547 AAGTCCAAACTCGAATGGGGCAGT 2548 GATTTATTGGCGCGGTAACGACCT 2549 TGTTTTCAGAGGCTACCCTGCCAT 2550 ACGGTCTCAGGGAAATGCGACTCC 2551 GACTTGAAACCGCCTATGCCCACA 2552 CGATCGGTTGTGTGCTGTCTTACC 2553 AGTAGCACAATGCCTCACAT 2554 CTCGCTATCACGGCATCTCCGAAA 2555 AGCCCGTTACGGCATCTCCGAAA 2555 AGCCCGTTACGGCATCTCCGAAA 2556 TCGCGATGGCGAGAATTCCAAAACCCGCAAA 2557 TTACAGGATTCCAAAACCCGCAAA 2558 CGGTACCAACGCGGGGCATATGA 2559 TGCCAGTATTATCCGTGCCAGCG 2560 ATTTCAGACCTCGGGACAACCTGG 2561 GAAGTGCCGTAACTTAGCACCC 2562 TTGCCAGTAACTTAGCGACCC 2564 CGCAGGTAACTTAGCTCCCAT 2565 TTGGCAAGCCGCGACAATGTT 2566 CCGCAAAAGCCGCGGCCCTC 2566 CCGCAAAACTAGACCTGGGT 35 2567 CATCTCGGCACATGGTGCTGTT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAACTTTGGCCCAG 2570 GTTGGGATGCTCACTTTGGG 2571 TTCGAGCCAGAAAACCGCCAG	-		
2535   AGGCGTTAGAACCGTGAAGGCAG   2536   TGGAAAATTTTGGGAAACGCTGGA   2537   CCAGCGCGCACCTTCTCCAATAG   2538   TAGACGGCGCACCTTCTCCAATAG   2538   TAGACGGCTGGCAATCTTACGGT   2539   TACCATACAAGAGAACGAGCCGCA   2540   GTAGCCGAGACGATTTTCACCGC   2541   GCAAACTCCCCTGCCCTTTAGCCT   2542   ATCCCGCTGATAACCGCCAGGATA   2543   AGTCTCAGTTCGGCGCAACGGTAG   2544   AACCTACAGTGCCGCAACGATG   2545   ATACACGTTCGGCGCAACGATG   2546   AACCTACAGTCGCCGCAACGAT   2546   ACGACGGGACGATCAT   2546   ACGACGGGACACAAT   2546   ACGACGGGACCGTCCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGGCAGT   2548   GATTTATTGGCGCGTAACGACCT   2559   ACGGTCTCAGGGAAACGCT   2559   ACGGTCTCAGGGAAATGCCCCAT   2550   ACGGTCTCAGGGAAATGCGATCTC   2551   GACTTGAAACCGCCTATTCCCC   2552   CGATCGGTTGTGTGCTCTTTACC   2553   AGTAGCACAATCCCTCATTTCCCC   2554   CTCGCTATCACCGTCTCCCAAA   2555   AGCCGTTACGGCATCTCGCCCACA   2555   AGCCGTTACGGGAATTCAGAATA   2556   TCCCGATTGCCCACAA   2555   AGCCGTTACGGGAAATCCCTCAAACCCGCAAA   2555   AGCCGTTACGGGAAATCCCTCAAACCCGCAAA   2555   AGCCGTTACGGGAATCTAGGATTC   2556   TCCCGATTGCCGACAACCTGCCCCCCCCCCCCCCCCCCC		2533	CCTGAGTGGTCGGGCTGGAAAAAT
2536   TGGAAAATTTTGGGAAAGCTGGA		2534	TGCGATCTTCTCCACCTACAGCGC
5         2537         CCAGCGCCGCACCTTCTCCAATAG           2538         TAGACGGCTGGCGAATCTTACGGT           2539         TACCATACAAGASAACGAGCCGCA           2540         GTAGCCGAGACAATTTCACCGC           2541         GCAAACTCCCCTGCCTTTAGCCT           10         2542         ATCCCGCTGATAACCGCCAGCATA           2543         AGTCTCAGTTCGGCGCAACGGTAG           2544         AACCTACAGTCGCCGCAATGCATT           2545         ATACAGTTTCAGCCGCCAACAAT           2546         ACGACGGGACGTGCCCTCGTTGAT           2547         AAGTCCAAACTCGAATGGGGCAGT           2548         GATTTATTGGCGGGTAACGACCT           2549         TGTTTCAGAGGCATCCCTGCCAT           2550         ACGGTCTCAGGGAAATGCGACCT           2551         GACTTGAAACCGCCTATGCCCACA           2552         CGATCGGTTGTGCTGTTTACC           2553         AGTAGCACAATGCCTCATTTCCCG           2554         CTCGCTATCTACGCGTTCTCCGAAA           2555         AGCCCGTTACGCGGAAATTCCCAACA           2556         TCGCATTATCACGCGTACTAGAATA           255         2557         TTACAGATTTCAAAACCCCCAAA           2558         TCGCAGTATTATCCAGCGGCAAACTGA           2559         TGCCAGTATTATCCGTGCCAGCCA           2560         ATTTCAGACCTCGGGACAACTTGCCCTCC		2535	AGGCGCTTAGAACCGTGAAGGCAG
2538   TAGACGGCTGGCGAATCTTACGGT   2539   TACCATACAAGAGAACGAGCCGCA   2540   GTAGCCGAGAGCAATTTTCACCGC   2541   GCAAACTCCCTGCCCTTTAGCCT   2542   ATCCGGCTGATAACCGGCAGGATA   2543   AGTCTCAGTTCGGCGCAACGGTAG   2544   AACCTACAGTCGCCGCAACGGTAG   2544   AACCTACAGTCGCCGCAACGGTAG   2545   ATCACGTTTCAGCCGGCAACGATA   2546   ACGACGGGACGTCCCTCGTTGAT   2546   ACGACGGGACGTGCCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGCAACAT   2548   GATTTATTGCGCGCGGAACAAT   2548   GATTTATTGCGCGGGTAACGACCT   2549   TGTTTCAGAGGCTACCCTGCCAT   2550   ACGGTCTCAGGGAAATGCGATCTC   2551   GACTTGAAACCGCCTATGCCCACA   2552   CGATCGGTTGTGTGTCTCCCCCCCCCCCCCCCCCCCCCC		2536	TGGAAAATTTTGGGAAACGCTGGA
2539   TACCATACAAGAGAACGAGCCGCA   2540   GTAGCCGAGAGCAATTTTCACCGC   2541   GCAAACTCCCCTGCCTTTAGCCT   2541   GCAAACTCCCCTGCCTTTAGCCT   2542   ATCCCGCTGATAACCGCCAGGATA   2543   AGTCTCAGTTCGGCGCAACGGTAG   2544   AACCTACAGTCGCCGCAACGATAC   2545   ATCACGTTCAGCCGCAACGATAC   2546   ACGACGGGACCACAAT   2546   ACGACGGGACCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGCAACAAT   2548   GATTTATTGGCGCGGCAACAAT   2548   GATTTATTGGCGCGGGTAACGACCT   2550   ACGGTCTCAGGAGAATGCGATCTC   2551   GACTTGAAACCGCCTATGCCCAC   2551   GACTTGAAACCGCCTATGCCCAC   2552   CGATCGTTGTGTGTGTTTACC   2553   AGTAGCACAATGCCTATTCCGC   2554   CTCGCTATCTACGCGTCTCCGAAA   2555   AGCCCGTTACGCCACA   2556   TCCCGATACTACGCGTCTCCGAAA   2556   TCCCGATTCCGCAACACCGCGAAA   2556   CCGCATGGCGAGAGTTCAAAACCACCACAA   2558   CGGTACCAACGCGCGGACAATGA   2558   CGGTACCAACGCGCGGACAATGA   2558   CGGTACCAACGCGCGGGCATATGA   2559   TGCCAGTATTATCCGTCCACCG   2560   ATTTCAGACCTCGGGACAACCTGG   2561   GAAGTGCGCTAATCATCACCGCAT   2563   ATCGGCCGTAATTAACCTGCAT   2564   CGCAGGTAATCATCACCTCCCCC   2564   CGCAGGTAATGAACCCGCAT   2566   CGCAAAAGTATGACCCCACCC   2566   CGCAAAAGTAGCACCTGGCTCCCCCCCCCCCCCCCCCCC	5	2537	CCAGCGCCGCACCTTCTCCAATAG
2540   GTAGCCGAGAGCAATTTTCACCGC   2541   GCAAACTCCCCTGCCCTTTAGCCT   2542   ATCCCGCTGATAACCGCCAGGATA   2543   AGTCTCAGTTCGGCGCAACGGTAG   2544   AACCTACAGTCGCCGCAATGCATT   2545   ATACACGTTCAGCCGCAACAAT   2546   ACGACGGACGTTGACCCGCAACAAT   2546   ACGACGGGACGTGCCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGGCAGT   2548   GATTTATTGGCGGGTAACGACAT   2549   TGTTTTCAGAGGGCAGCT   2549   TGTTTTCAGAGGGCACCT   2550   ACGGTCTCAGGGAAATGCGATCTC   2551   GACTTGAAACCGCCTATGCCCACA   2552   CGATCGGTTGTGTTTACC   2553   AGTAGCACAATGCCTACTTCCGC   2554   CTGCCTATCTACGCCTCCCAAA   2555   AGCCCGTTAGGCATCTCCGAAA   2555   AGCCCGTTAGCCATCCCGAAA   2555   AGCCCGTTACGCACTCAGCATC   2556   TCGCGATGCGAGAATAC   2556   TCGCGATGCGAAAACCCGCAAA   2556   TCGCGATGGCGAGAATGCAATAC   2557   TTACAGGATTCCAAAACCCGCAAA   2558   CGGTACCAACGCGCGGGGCATATGA   2559   TGCCAGTATTACCGGCCCCCC   2560   ATTTCAGACCTCGGGACAACCTGG   2561   GAAGTGCGCGTAACTTAGCGACCCCCCC   2562   TTGGCCAGGTAACTTAGCAGCCCCATC   2563   ATCGGCCGTATCACTCTGCCAT   2563   ATCGGCCGTATTAGCTGCCCTC   2564   CGCAGGTAAGCACCTGGCT   2565   TTGGCAGGTCATCACTCTGCCTC   2566   CCGCAAAAGTAGAACAGCCTGGGT   2567   ATCGGCCGGTATTAGCAGCGCCCTC   2568   CCGCAAAAGTAGAACAGCCTGGGT   2569   CGTAGGTGGTAACTTGGCCCAG   2569   CGTAGGTGGTAAACGACCTGGGT   2569   CGTAGGTGGTAAACTGTGCCCAG   2570   GTTGGGATACTTTGGCCCAG   2571   TTCGAGCCAGAATAAACAGCGTTGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2572   AGAGTATTCGGCCTCGGTCGAGA   2573   CGACAAAGTTTCTCCGCAACACT		2538	TAGACGGCTGGCGAATCTTACGGT
2541   GCAAACTCCCCTGCCTTTAGCCT		2539	TACCATACAAGAGAACGAGCCGCA
10   2542   ATCCGGTGATAACCGCCAGGATA   2543   AGTCTCAGTTCGGCGCAACGGTAG   2544   AACCTACAGTCGCCGCAACGATT   2545   ATACACGTTTCAGCCGGCAACAAT   2546   ACGACGGGACGTGCCCTCGTTGAT   2546   ACGACGGGACGTGCCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGGCACT   2548   GATTTATTGCACGGGTAACGACT   2549   TGTTTTCAGAGGGCACCT   2550   ACGGTCTCAGGGGAAATGCCATC   2551   GACTTGAAACCGCCTATGCCCACA   2551   GACTTGAAACCGCCTATGCCCACA   2552   CGATCGGTTGTGTGCTCTTACC   2553   AGTAGCACATGCCTCATTCCGC   2554   CTCGCTATCACGCGTCTCCGAAA   2555   AGCCGTTACGGCATCTCGCAAA   2555   AGCCGTTACGGCATCTAGGATTC   2556   TCCGATGCGAAACCCGCAAA   2557   TTACAGGATTCAAAACCAGAATA   2559   TGCCAGTATTATCCGTGCCACAA   2559   TGCCAGTATTATCCGTGCCACAA   2559   TGCCAGTATTATCCGTGCCACCG   2560   ATTTCAGACCTCGGGACAACTGG   2561   GAAGTGCGCGTAACTTAGGGAGCC   2562   TTGGCCAGGTCATCACTTGCCAT   2563   ATCGGCCGGTAATTATCCTGCCAT   2563   ATCGGCCGGTAATTATCCTCCCCTC   2564   CGCAGATAGAACAGCCTGGG   2565   TTGGCAAGTTAGACTCGCCCTC   2566   CCGCAAAAGTAGAACACCTTGGT   2565   TTGGCAAGTTAGACGCCCCTC   2566   CCGCAAAAGTAGAACAGCCTGGT   2567   CATCTCGGCACACTGTGCTGTAT   2568   ACGCTAAATCAACACGCTGGTTG   2569   CGTAGGTGGTAAATGTTGGCCCAG   2570   GTTGGGATAAACACGCTTGGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2572   AGAGATATTCCCCCTGCGTCGAGA   2573   CGACAAAGTTTCTCCCCGAGCAACT	, [	2540	GTAGCCGAGAGCAATTTTCACCGC
2543   AGTCTCAGTTCGGCGCAACGGTAG		2541	GCAAACTCCCCTGCCCTTTAGCCT
2544	10	2542	ATCCCGCTGATAACCGCCAGGATA
2545   ATACACGTTTCAGCCGGCAACAAT   2546   ACGACGGGACGTGCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGGCAGT   2548   GATTTATTGGCGCGGTAACGACCT   2549   TGTTTTCAGAGGCTACCCTGCCAT   2550   ACGGTCTCAGGGAAATGCGATCTC   2551   GACTTGAAACCGCCTATGCCCACA   2552   CGATCGGTTGTGTGTGTCTTTACC   2553   AGTAGCACAATGCCTCATTTCCGC   2554   CTCGCTATCTAGCGATCTC   2555   AGACCGATCTGCTATTTCCGC   2555   AGACCGACAATGCCTCATTTCCGC   2555   AGACCGATCTAGCGATCTC   2556   TCGCGATGGCGAGAGTTCAGAATA   2555   AGCCCGTTACGCGATCTAGGATTC   2556   TCGCGATGGCGAGAGTTCAGAATA   2557   TTACAGGATTCCAAAACCCGCAAA   2558   CGGTACCAACGCGGGGGCATATGA   2559   TGCCAGTATTATCCGTGCCAGCG   2560   ATTTCAGACCTCGGGACAACCTGG   2561   GAAGTGCGCTAACTTAGGGAGCC   2564   CGCAGGTAATGACTCTGCCAT   2563   ATCGGCCGGTAATTAGCTGCCCTCC   2564   CGCAGGTAAGGCCGAGCAATGTT   2565   TTGGGAACGTCAGCGACAATGTT   2565   TTGGGAACGTCAGCGACAATGTT   2565   TTGGGAACGTCAGCGGGCCTC   2566   CCCCAAAAGTAGACAGCCTGGGT   2567   CATCTCGGCACACTGGTGCTGTAT   2568   ACGCTAAATCAACGACGTGGTCG   2570   GTTGGGATGCTTCACTTTGGG   2571   TTCGAGCCAGAATAAAACGGTTGG   2572   AGAGATATTCGCCTCGGTCGAGA   2573   CGACAAAGTTTCCGCGAGCAACT		2543	AGTCTCAGTTCGGCGCAACGGTAG
2546   ACGACGGGACGTGCCCTCGTTGAT   2547   AAGTCCAAACTCGAATGGGGCAGT   2548   GATTTATTGGCGCGGTAACGACCT   2549   TGTTTTCAGAGGCTACCCTGCCAT   2550   ACGGTCTCAGGGAAATGCGATCTC   2551   GACTTGAAACCGCCTATGCCCACA   2552   CGATCGGTTGTGTGTGTCTTACC   2553   AGTAGCACAATGCCTCATTTCCGC   2554   CTCGCTATCTACGCGTCTCAGAAA   2555   AGCCGTTATGCCCACA   2556   TCGCGATGGCGAGATTC   2556   TCGCGATGGCGAGAGTTCAGAATA   2557   TTACAGGATTCCAAAACCCGCAAA   2558   CGGTACCAACGCGCGGGCATATGA   2559   TGCCAGTATTACCGTGCCACA   2559   TGCCAGTATTACCGTGCCAGCG   2560   ATTTCAGACCTCGGGACAACCTGG   2561   GAAGTGCGCGTAACTTAGGAGCC   2562   TTGGCCAGGTAACTTAGGAGCC   2564   CGCAGGTAATGACTCTGCCAT   2563   ATCGGCCGGTAATTACCTTCCCAT   2565   TTGGCAAGTCTAGGCGGCCCTC   2566   CCGCAAAAGTAGACACCTGGGT   2567   CATCTCGGCACACTGGTGCTGTT   2568   ACGCTAAATCAACACGCTGGTC   2569   CGTAGGTGGTAAATCATCGCCCAG   2570   GTTGGGATGCTTCACTTTGGC   2571   TTCGAGCCAGAATAAAACGGTTGG   2572   AGAGATATTCGGCCTCGGTGAGA   2573   CGACAAAGTTTCTCCCGGAGCAACT	[	2544	AACCTACAGTCGCCGCAATGCATT
15		2545	ATACACGTTTCAGCCGGCAACAAT
2548   GATTTATTGGCGGGGTAACGACCT		2546	ACGACGGACGTGCCCTCGTTGAT
2549   TGTTTTCAGAGGCTACCCTGCCAT	15	2547	AAGTCCAAACTCGAATGGGGCAGT
2550 ACGGTCTCAGGGAAATGCGATCTC 2551 GACTTGAAACCGCCTATGCCCACA 2552 CGATCGGTTGTGTGCTGTCTTACC 2553 AGTAGCACAATGCCTCATTTCCGC 2553 AGTAGCACAATGCCTCATTTCCGC 2554 CTCGCTATCTACGCGTCTCCGAAA 2555 AGCCCGTTACGGCATCTAGGATTC 2556 TCGCGATGGCGAGAGTTCAGAATA 2557 TTACAGGATTCCAAAACCCGCAAA 2558 CGGTACCAACGCGGGGCATATGA 2559 TGCCAGTATTATCCGTGCCAGCCG 2560 ATTTCAGACCTCGGGACAACCTGG 2561 GAAGTGCGCTAACTTAGGGAGCC 2562 TTGGCCAGGTCATCACTCTGCAT 2563 ATCGGCCGGTAATTAGCTGCCTCC 2564 CGCAGGTAAGGCCGAGCAATTT 2565 TTGGAACGTGCTAGCGGGCCTC 2566 CCGCAAAAGTAGACACCTGGT 35 2567 CATCTCGGCACACTGGTCTAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2548	GATTTATTGGCGCGGTAACGACCT .
2551 GACTTGAAACCGCCTATGCCCACA  2552 CGATCGGTTGTGTGCTGTTTACC  2553 AGTAGCACAATGCCTCATTTCCGC  2554 CTCGCTATCTACGCGTCTCCGAAA  2555 AGCCCGTTACGGCATCTAGGATTC  2556 TCGCGATGGCAGAGTTCAGAATA  2557 TTACAGGATTCCAAAACCCGCAAA  2558 CGGTACCAACGCGGGGGCATATGA  2559 TGCCAGTATTATCCGTGCCAGCCG  2560 ATTTCAGACCTCGGGACAACCTGG  2561 GAAGTGCGCGTAACTTAGGAGCC  30 2562 TTGGCCAGGTCATCACTTCGCAT  2563 ATCGGCCGGTAACTTAGCTGCCAT  2564 CGCAGGTAAGGCCGAGCAATTT  2565 TTGGGAACGTGCTAGCCCTCC  2566 CCGCAAAAGTAGACAGCCTGGGT  35 2567 CATCTCGGCACACTGGTGCTGTAT  2568 ACGCGTAAATCAACGACGTGGTCG  2569 CGTAGGTGGTAAATTTGGCCCAG  2570 GTTGGGATGCTCACTTTGGG  2571 TTCGAGCCAGAATAAACCGTTGG  40 2572 AGAGATATTCGCCTCGGACACTT		2549	TGTTTCAGAGGCTACCCTGCCAT
2552 CGATCGGTTGTGTGTGTTTACC  2553 AGTAGCACAATGCCTCATTTCCGC  2554 CTCGCTATCTACGCGTCTCCGAAA  2555 AGCCCGTTACGGCATCTAGGATTC  2556 TCGCGATGGCGAGAGTTCAGAATA  2557 TTACAGGATTCCAAAACCCGCAAA  2558 CGGTACCAACGCGCGGGCATATGA  2559 TGCCAGTATTATCCGTGCCAGCCG  2560 ATTTCAGACCTCGGGACAACCTGG  2561 GAAGTGCGCGTAACTTAGGGAGCC  30 2562 TTGGCCAGGTCATCACTCTGCCAT  2563 ATCGGCCGGTATTAGCTGCCCTCC  2564 CGCAGGTAAGGCCGAGCAATGTTT  2565 TTGGGAACGTCTAGGCGGCCCTC  2566 CCGCAAAAGTAGAACAGCCTGGGT  35 2567 CATCTCGGCACACTGGTGCTGTAT  2568 ACGCGTAAATCAACGACGTGGTCG  2569 CGTAGGTGGTAAATCTTGGCCCAG  2570 GTTGGGATGCTTCACTTTGGG  2571 TTCGAGCCAGAATAAAACGGTTGG  40 2572 AGAGATATTCCGCGAGCAACT	1	2550	ACGGTCTCAGGGAAATGCGATCTC
2553 AGTAGCACAATGCCTCATTTCCGC 2554 CTCGCTATCTACGCGTCTCCGAAA 2555 AGCCCGTTACGGCATCTAGGATTC 2556 TCGCGATGGCGAGAGTTCAGAATA 2557 TTACAGGATTCCAAAACCCGCAAA 2558 CGGTACCAACGCGCGGGCATATGA 2559 TGCCAGTATTATCCGTGCCAGCCG 2560 ATTTCAGACCTCGGGACAACCTGG 2561 GAAGTGCGCGTAACTTAGGGAGCC 2562 TTGGCCAGGTCATCACTCTGCCAT 2563 ATCGGCCGGTATTAGCTGCCCTCC 2564 CGCAGGTAAGGCCGAGCAATGTTT 2565 TTGGGAACGTGCTAGGCGGCCCTC 2566 CCGCAAAAGTAGACAGCCTGGGT 35 2567 CATCTCGGCACACTGGTGCTGTAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATCTTGGCCCAG 2570 GTTGGGATGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCCGCAGCAACT		2551	GACTTGAAACCGCCTATGCCCACA
2554 CTCGCTATCTACGCGTCTCCGAAA  2555 AGCCCGTTACGGCATCTAGGATTC  2556 TCGCGATGGCGAGAGTTCAGAATA  2557 TTACAGGATTCCAAAACCCGCAAA  2558 CGGTACCAACGCGCGGGCATATGA  2559 TGCCAGTATTATCCGTGCCAGCCG  2560 ATTTCAGACCTCGGGACAACCTGG  2561 GAAGTGCGCGTAACTTAGGGAGCC  2562 TTGGCCAGGTCATCACTCTGCCAT  2563 ATCGGCCGGTATTAGCTCCCTC  2564 CGCAGGTAAGGCCGAGCAATGTT  2565 TTGGGAACGTCGTAGGCGGCCTC  2566 CCGCAAAAGTAGAACAGCCTGGGT  35 2567 CATCTCGGCACACTGGTGCTAT  2568 ACGCGTAAATCAACGACGTGGTCG  2569 CGTAGGTGGTAAATGTTGGCCCAG  2570 GTTGGGATGCTTCACTTTGGG  2571 TTCGAGCCAGAATAAAACGGTTGG  40 2572 AGAGATATTCGGCCTCGGTCGAGA  2573 CGACAAAGTTTCTCGCGAGCAACT	20	2552	CGATCGGTTGTGTGCTGTCTTACC
2555 AGCCCGTTACGGCATCTAGGATTC  2556 TCGCGATGGCGAGAGTTCAGAATA  2557 TTACAGGATTCCAAAACCCGCAAA  2558 CGGTACCAACGCGCGGGCATATGA  2559 TGCCAGTATTATCCGTGCCAGCCG  2560 ATTTCAGACCTCGGGACAACCTGG  2561 GAAGTGCGCGTAACTTAGGGAGCC  30 2562 TTGGCCAGGTCATCACTCTGCCAT  2563 ATCGGCCGGTATTAGCTGCCCTCC  2564 CGCAGGTAAGGCCGAGCAATGTTT  2565 TTGGGAACGTGCTAGGCGGCCTC  2566 CCGCAAAAGTAGAACAGCCTGGT  35 2567 CATCTCGGCACACTGGTGCTGT  2568 ACGCGTAAATCAACGACGTGGTCG  2569 CGTAGGTGGTAAATCTTGGC  2570 GTTGGGATGCTTCACTTTGGG  2571 TTCGAGCCAGAATAAAACGGTTGG  40 2572 AGAGATATTCGCCCTCGGTCGAGA  2573 CGACAAAGTTTCTCGCGAGCAACT		2553	AGTAGCACAATGCCTCATTTCCGC
2556   TCGCGATGGCGAGAGTTCAGAATA		2554	CTCGCTATCTACGCGTCTCCGAAA.
25         2557         TTACAGGATTCCAAAACCCGCAAA           2558         CGGTACCAACGCGCGGCATATGA           2559         TGCCAGTATTATCCGTGCCAGCCG           2560         ATTTCAGACCTCGGGACAACCTGG           2561         GAAGTGCGCGTAACTTAGGAGCC           30         2562         TTGGCCAGGTCATCACTCTGCCAT           2563         ATCGGCCGGTATTAGCTGCCCTCC           2564         CGCAGGTAAGGCCGAGCAATGTTT           2565         TTGGGAACGTGCTAGGCGGCCCTC           2566         CCGCAAAAGTAGAACAGCCTGGGT           35         2567         CATCTCGGCACACTGGTGCTGAT           2568         ACGCGTAAATCAACGACGTGGTCG           2569         CGTAGGTGGTAAATGTTGGCCCAG           2570         GTTGGGATGCTGCTTCACTTTGGG           2571         TTCGAGCCAGAATAAAACGGTTGG           40         2572         AGAGATATTCGGCCTCGGTCGAGA           2573         CGACAAAGTTTCTCGCGAGCAACT		2555	AGCCCGTTACGGCATCTAGGATTC
2558   CGGTACCAACGCGCGGGCATATGA		2556	TCGCGATGGCGAGAGTTCAGAATA
2559   TGCCAGTATTATCCGTGCCAGCCG	25	2557	TTACAGGATTCCAAAACCCGCAAA
2560   ATTTCAGACCTCGGGACAACCTGG     2561   GAAGTGCGCGTAACTTAGGGAGCC     30   2562   TTGGCCAGGTCATCACTCTGCCAT     2563   ATCGGCCGGTATTAGCTGCCCTCC     2564   CGCAGGTAAGGCCGAGCAATGTTT     2565   TTGGGAACGTGCTAGGCGGCCCTC     2566   CCGCAAAAGTAGAACAGCCTGGGT     2567   CATCTCGGCACACTGGTGCTGAT     2568   ACGCGTAAATCAACGACGTGGTCG     2569   CGTAGGTGGTAAATGTTGGCCCAG     2570   GTTGGGATGCTTCACTTTGGG     2571   TTCGAGCCAGAATAAAACGGTTGG     40   2572   AGAGATATTCGGCCTCGGTCGAGA     2573   CGACAAAGTTTCTCGCGAGCAACT		2558	CGGTACCAACGCGCGGGCATATGA
2561   GAAGTGCGCGTAACTTAGGGAGCC		2559	TGCCAGTATTATCCGTGCCAGCCG
2562   TTGGCCAGGTCATCACTCTGCCAT     2563		2560	ATTTCAGACCTCGGGACAACCTGG
2563 ATCGGCCGGTATTAGCTGCCCTCC 2564 CGCAGGTAAGGCCGAGCAATGTTT 2565 TTGGGAACGTGCTAGGCGGCCCTC 2566 CCGCAAAAGTAGAACAGCCTGGGT 35 2567 CATCTCGGCACACTGGTGCTGTAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2561	GAAGTGCGCGTAACTTAGGGAGCC
2564 CGCAGGTAAGGCCGAGCAATGTTT 2565 TTGGGAACGTGCTAGGCGGCCCTC 2566 CCGCAAAAGTAGAACAGCCTGGGT 2567 CATCTCGGCACACTGGTGCTGAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT	30	2562	TTGGCCAGGTCATCACTCTGCCAT
2565 TTGGGAACGTGCTAGGCGGCCCTC 2566 CCGCAAAAGTAGAACAGCCTGGGT 35 2567 CATCTCGGCACACTGGTGCTGTAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2563	ATCGGCCGGTATTAGCTGCCCTCC
2566 CCGCAAAAGTAGAACAGCCTGGGT 2567 CATCTCGGCACACTGGTGCTGTAT 2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2564	CGCAGGTAAGGCCGAGCAATGTTT
2567 CATCTCGGCACACTGGTGCTGTAT  2568 ACGCGTAAATCAACGACGTGGTCG  2569 CGTAGGTGGTAAATGTTGGCCCAG  2570 GTTGGGATGCTGCTTCACTTTGGG  2571 TTCGAGCCAGAATAAAACGGTTGG  40 2572 AGAGATATTCGGCCTCGGTCGAGA  2573 CGACAAAGTTTCTCGCGAGCAACT		2565	TTGGGAACGTGCTAGGCGGCCCTC
2568 ACGCGTAAATCAACGACGTGGTCG 2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2566	CCGCAAAAGTAGAACAGCCTGGGT
2569 CGTAGGTGGTAAATGTTGGCCCAG 2570 GTTGGGATGCTGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT	35	2567	CATCTCGGCACACTGGTGCTGTAT
2570 GTTGGGATGCTGCTTCACTTTGGG 2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2568	ACGCGTAAATCAACGACGTGGTCG
2571 TTCGAGCCAGAATAAAACGGTTGG 40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2569	CGTAGGTGGTAAATGTTGGCCCAG
40 2572 AGAGATATTCGGCCTCGGTCGAGA 2573 CGACAAAGTTTCTCGCGAGCAACT		2570	GTTGGGATGCTGCTTCACTTTGGG
2573 CGACAAAGTTTCTCGCGAGCAACT		2571	TTCGAGCCAGAATAAAACGGTTGG
	40	2572	AGAGATATTCGGCCTCGGTCGAGA
2574 ATTGCCGCGTCTCGTATCAAAAGA		2573	CGACAAAGTTTCTCGCGAGCAACT
		2574	ATTGCCGCGTCTCGTATCAAAAGA

ſ	2575	CGGAGAATGGATGCAGGTTCTTCG
[	2576	TATAATCATTTGCGACTCGCCCCA
Ţ	2577	AATTTTCCCCGATTTGAAGAAGCG
	2578	TCGCATACTTCGTCGGCGAGTATT
5	2579	CGTGAGCCGTTCTCATCCAAGCGG
	2580	GCAGAATCGAATTGGGGTGGGTTT
	2581	CTCTCGGTTTCTCAACCGAGCTCG
ĺ	2582	GACCAGTTAGTGCAATGGTTGGCG
	2583	TTCTCGCACAGCTAGTCAGCCGAT
10	2584	CCAAGTCTTGCGTGAGCGATCCTG
	2585	GCGAAAGTGGCTCGTATTTCTCCA
	2586	CCTCGGGACTGTCCGACTGAAAAA
Ī	2587	AGGCGAGTGTACGGCTCATCCATG
	2588	GCGGCTCTGCCTACGATATTCACA
15	2589	TGCACCTGTCTGTAGATTTGCGGT
	2590	CATAAAGCACGGACGCGACTTGAT
·	2591	CCCTCAACGTAGGGCGTGACTTTC
	2592	GGGTCATCGTGCAGTTATGCCGTA
	2593	CCCGGATAATCCTTTGTCCAGCCG
20	2594	TCCGATAAGCGAACTCACATGGGT
	2595	CCTGCTGGTTCGGTCGTAAGCGAA
	2596	GAGGCACCAATCGGTCTGAAAATG
	2597	TACGAAAATGGTTGCGCCGGGTCT
	2598	CCCAAAGATCGTATCACCACCCAA
25	2599	AATTGCCGGAAGCAGTCAGAATCG
	2600	CCGAATCAGCCGTATTTGCTGGAA
	2601	CCCGCTTATCTGTACTCGATCGCA
	2602	TTTTGGGGATCCCTATTAGGCGCA
	2603	AGTGACAGCGCTCACCACGGTCCC
30	2604	CCATGAGTGTTTCGGGACATCGTA
	2605	GCCACATTCTGCTACCTCCGTGTT
	2606	TCCTGTGCTTTGTGACGTGCTAGG
	2607	GACCGCATATACACCTGATGGGCC
	2608	GTAGGCCCGTCGTTAACCATCTCA
35	2609	CGGCTCGCGAAATGGAGTTTAGCG
	2610	GCTGATCGGCTTTTCACCGCTATA
	2611	TATCAAATCGTTGGCACGCGACTA
• •• •	2612	TTGGCGAGGATCCCTAGGCGTACT
	2613	AAGTCCTGAGGCCGTTCGGTTTCT
40	2614	ACTCCGGACATCTCGGCCAGAGAT
	2615	CCAAGGGGAACACAGGATCGTAGA
	2616	GTGGCCTAAATCCGCCTTCTCAAC
	·	

	2617	CACTCCGTCTCGTCCATTAATGCG
	2618	TCAAGAACCCAGTGCCGGTCAGCA
	2619	GAATCAATTTTCCAGGGACGGGAC
	2620	GAGAGCATACGCAATGTTCCCTCC
5	2621	ATCGGTGTGCTGGAGCGCCAGAGT
	2622	GCCTCTCCTATGACGATGACCCAC
	2623	TGGGCGCGCTTTTAAGACTACATC
	2624	CGTTGGGTACCGTTCTATCAACCG
	2625	GCAGTGAGCTGGGTTCAATGCTTC
10	2626	CATCATCCACACAGGCAGGTGTGT
·	2627	AGACAAAGGTCCCCATTGCGAAAT
	2628	ATACTCGTCGACGAGAGCGGAAA
	2629	GCAGAATGTGTTGTCTTCGCAGCC
	2630	CACCATGCCTTCATCTTGGCCTAG
15	2631	ACTCTTCAACGCCAGGTTAAGCCA
	2632	GCGACCTGCGGCGTGTGTATTCTC
	2633	TCGGTGTATGCACCCTTTCTCCAT
	2634	ACCGTCGAATCTTGCGGCCAATGT
	2635	TAATGCATGCTCCCGGCTCACGTT
20	2636	TCTGTACACACCACGTCGTGCACA
	2637	CATGGGGTTGTCAGACGACACCTA
	2638	AATCTGATGCTCGCTGTAGGACGG
	2639	TCGAAACCGCGGGAAAGGGTAAAA
	2640	CGCTAGGGCCTAGGGGCACAGACA
25	2641	TGGGGGACGGGCGTCTAATCCTCC
	2642	AGGCATGCACCCATGCTGCCAGAG
	2643	TCCCAATGGCCTGTCAAGCATAAA
	2644	GAACCTGAGCCTTTGCTAGCACGA
	2645	CGAATTGATAGCGTTACGGGCGAA
30	2646	TTGCACGCGCGCAACGACTATTC
	2647	TGCGGTGAAGCAGTCCAAGGTCAG
	2648	TGAGGACCATCCAATGGATCGGTT
	2649	TCGGTGATTGGTAATTTGGATCCG
	2650	GCGGGCAGGTAGTTTGACTGGATG
35	2651	CAAGCACAAGCCCATGAAATTTCA
	2652	CGGTACAGCGATAGCCAAGGATA
	2653	CCATGCTCTTCGCTGCAGCATACT
· .	2654	CGCGGCAAAGATTAATTCCCGGCG
	2655	GAAGACCCGTCCGGGTTTCCATAC
40	2656	CTGGCAAGGAGGATGTGGCTCGTG
	2657	CTGTGCAGGGGGTGGCTCTGTTGA
	2658	TTCAATAATGATCACGAGGCCCCA

-		
[	2659	TGGTGATGCGAAGCCTTACCTTTG
[	2660	CTGCCACCATCTACGGCGCAGTCT
[	2661	TTTGCCCAGCTCTCGCAGAAGTTA
Ī	2662	AATTCAGACGCCACATCGACGGTC
5	2663	CCGTGGTCTGCCTCGATTACCTAC
	2664	GGCGAGGAATTTCGGAACCTTATG
	2665	ATCCGATGATCAGATACCGGCTGG
	2666	CCATAGACTAGCGCCAGAGTGCCC
	2667	TGTGGACCTAGAAAATTGCCAGCC
10	2668	GAATAATCATCGCGGTCCTCATGG
	2669	GGGATTGGCTCTTGGTTGGAAGAA
	2670	ATTGTGCTTCCTCGAACTGGGAAA
	2671	TGCCCACCCGTAAGTCAATAAT
	2672	TCAGGACCGACGGTGCACTTAGTG
15	2673	CCAGCCGTCACAGTGCAATTTCCG
	2674	CTTAAAGAGGCGCGAAGCACAACA
	2675	TACCGCTCGCGATCACAATGA
	2676	CCGAGTGCGCGAAGTGTCTATGTG
	2677	GCACCAGTGCCCGATCAAAACGTA
20	2678	TGCAGGCTTCTCAACGGCTGGGAG
	2679	CTCCGTACGTATCCCGCGTGATAC
	2680	GGAAGTGCAACTTAAAGCCCCGCC
	2681	CGAACCGGCAGTCGATCGTTGCAT
	2682	CCGTTAGTGGTCGACAGTTCGGTT
25	2683	TCAGGCTACGCCCTCAGCACTACA
	2684	TATACGGGCCGAGGTCCGTATTCG
	2685	CCAACGTGTGACGAAGGGCCATTG
	2686	CTGCTCAGCGGTGCTTGAAAGACA
	2687	GGAGATTGACTTCGCGTTTCACCA
30	2688	ATGGTTCAGAAGGTTCGTCGGGTT
	2689	GAGTGGAGCATTCTCGGCCCTCAA
	2690	TGGATTGGAACCAATCCCGCACAA
	2691	TGCTCTTGTGGTCACTCGAGAGGA
	2692	TTGGGAGCACGGTTACCGCCTGTG
35	2693	CAACGCGAGCTAACGGTAGTTTCG
	2694	AACGCTGAGCGCTCACCTTCACCT
	2695	CCGTCGTAGATCTGGAGGCTTCAA
	2696	GGATGGCATGGGCACACTGTAACC
	2697	TCGCTCGTAGATATCCTTCACGCC
40	2698	GGAGCAATACCGCGTCCAAAACAC
	2699	CGGTGTGCTTCAAATGCCAAAGGA
	2700	TTGTTCAGACTTAGGCGCTGCCCA

2701   CGGCGTACTTTTCCACTGTCCT   2702   AAGACGATTGCCACAGAG   2703   AGGTGAGCCAGAGCATTGCAGT   2704   CTCGGGCCTGTACAGCAAAGCCGT   2705   TGCGGCCTAGTACTCCACAGAG   2706   CCATCCTTTGCCTGAGGGTAAGAG   2707   AACAACAGCGTAAGACGGACAGGG   2708   GAGGCGTCGAGAGCCCACAAGTATT   2709   CGAGGTTAGACCGACAGGG   2708   GAGGCGTCAGAGCCTACACATATT   2709   CGAGGTTAGACCGACCACA   2711   CGCGGTAATACCCGCCAC   2711   CGCGGTAATACCAGCGCC   2712   CACCGAATCAACCAATATGCATTAGACCGCACACACACAC			
2703 AGGTGAGCGAGGCATATTGCAGT 2704 CTCGGGCCTGTACAGCAAAGCCGT 2705 TGCGCGCTAGTGCTGCCTAGTAGTC 2706 CCATCCTTTGCCTTGAGGGTAAGG 2707 AACAACAGCGTAAGACGAGAAGG 2707 AACAACAGCGTAAGACGGACAGGG 2708 GAGGCGTCAGAGCCAATATT 2709 CGAGGTTAGACCCAC 10 2710 AACTTGCTATACCGGGGGCAGCAA 2711 CGCGGTGAATCGCATCACACAGCGC 2712 CACCGAATCACACAGCGC 2713 TTCACAGCTATCCTAGGCGGTGCC 2714 AGAAGCGCGAATCGCATAGGCTCT 2715 TGCATGGTATTTCCGGCGGTGCC 2714 AGAAGCGCGAAGTGTACCCCGCAT 15 2715 TGCATGGTATTTCCGGCGGTGCC 2716 GGCCGGACTATTTGCGTGCGATAGG 2717 TCAACCTGAGTCCTGATCCCAAGC 2718 TGCTTACCTGATCCCAAGC 2718 TGCTTACCGTTCAGGCGGTGT 2719 GGAGAGTTACGCGATGAGCCCCT 2720 CGGTATGCGGTGTACAGCTTTCGT 2721 GTAAGCCGGGTTACGCTGTGCCCT 2722 CGGTATGCGGTTACAGCCTTCGT 2723 TCCTCGCGGCTTACGTCAAATTCG 2724 CGACGTTCAAAGCCCCCCAACTA 2725 CGAGGCACCCCGACCTA 2726 CTATTTCGTCAGGAGAGAGAG 2727 CGGCTGCTAGTGCAGCTCTAGATCCGAAGC 2728 ATCACTCGTGCGACCCCGACCTC 2729 CGAGGTCCCTATCGTCAAATTCG 2728 ATCACTCGTGCGTACCCGACCGTC 2729 CGAGGTCCCTATCCGTCAAAATCG 2728 ATCACTCGTGCGTACCCGACCGTC 2729 CGAGATGTCCTATACCGTGGAAA 2731 AGCTACCGTGCTAAAATCAAA 2731 AGCTACCGTGCTCAAAATCAAA 2731 AGCTACCGTGCCCCAACAAGCG 2732 TCACACCGAGCCCCCAACAAGCG 2733 TTCATCCGTGCGAAAAACCG 2734 TGGTATCCCAAGACCAAAAACCG 2735 TCACACCGAGCCCCAAAAATCAAA 2731 TCGTTCTGTCATCCAGCCACCGCCGCCGACCGTC 2733 TTCGTTCTGTTATTTTGCCCCG 2734 TGGTATCCCCAGGAAAAACCG 2735 TCACACCGAGCCCCAATAATGAAA 2731 TCGTTCTGTTATTTTTTCACCGCG 2733 TTCGTTCTGTTATTTTTTCACCGCG 2734 TGGTATCCCCAGGAATTCAACCCTACCTACCTACCCTAC	<b>\</b>	2701	CGGCGGTACTCTTTCCACTGTCCT
2704   CTCGGGCCTGTACAGCAAAGCCGT		2702	AAGACGATTGCCCACGTGCCAGAG
5         2705         TGCGGGCTAGTGCTGCCTATGATC           2706         CCATCCTTTGCCTTGAGGGTAAGG           2707         AACAACAGCGTAAGACGGACAGGG           2708         GAGGCGTCAGAGCTCACAATATT           2709         CGAGGTTAGACGCCTATGACCCAC           10         2710         AACTTGCTATACCGGGGGCAGCAA           2711         CGCGGTGAATCGCATACACAGCGC           2712         CACCGAATCAAGCCATATGGCTCT           2713         TTCACAGCTATCCTAGGCGCTGCC           2714         AGAAGCGCAAGTGTACCCCGCAT           2715         TGCATGGTATTGCTGAGCCCCCAT           2716         GGCCGGACCTATGTGAGATGGAAA           2717         TCAACCTGAGTCCTGATCCCAAGC           2718         TGCTTACCGTTCAGGGAGGCGTGT           2719         GGAGAGTTACGCGATGAGCCACCT           2710         CGGTATGCGGGTTCAGAGCTCCCGACCTA           2721         GTAAGCCGGGTTACAGCTTCCTA           2722         GCGTAGTGCCGAACCGCTCAAATTCG           2723         TCCTCCGCGGCTTACGTCAAATTCG           2724         CGACGTTCAAAGCGGGAGAGGAG           2725         CGAGGCACCCGACATGTTGAGAT           2726         CTATTTCGTGCCGCTGAAAATCAG           2727         GGCTGCTCAGTGACCTGAACCG           2728         ATCACCGGAGCCCCATAAATGAA	{	2703	AGGTGAGCGCAGGCATATTGCAGT
2706   CCATCCTTTGCCTTGAGGGTAAGG   2707   AACAACAGCGTAAGACGGACAGGG   2708   GAGGCGTCGAGGCTCACAATATT   2709   CGAGGTTAGACGCACACCAC   2710   AACTTGCTATACCGGGCGCAGCAAC   2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCAAGCCATATTGCTCT   2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAAGTGTACCCCGCAT   2715   TGCATGGTTATTGCGTGCTATGGG   2716   GGCCGGACCTATGTGACCCAGAC   2718   TGCATGGTATTTGCGTGCATAGG   2718   TGCATGGTATTTGCGTGCATAGG   2719   GGAGGTTACCCTAGGCCACCT   2719   GGAGAGTTACGCGATCAGCCACCT   2720   CGGTATGCGGATCAGCCACCT   2721   GTAAGCCGGGTCTAGGTCCCAAGC   2722   GCTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAATCC   2724   CGACGTTCAAGCCACCT   2724   CGACGTCAAGCCACCTA   2725   CGAGGCACCCGACCATATCGCACCACCT   2726   CTATTTCGTGCCGCGTTAGAGCACACCCACCT   2727   GCTGCTCAAGCGACAGCGCCCGACATGTTGAAAT   2726   CTATTTCGTGCCGCGTCGGACAAG   2727   GGCTGCTCAGTGACGTACCACCGACCGTC   2728   ATCACTCGTGCGCGTCAACTGAAACCGACCACCACACACA		2704	CTCGGGCCTGTACAGCAAAGCCGT
2707   AACAACAGCGTAAGACGGACAGGG   2708   GAGGCGGTCGAGGCTCACAATATT   2709   CGAGGTTAGACGCCTATGACCCAC   2710   AACTTGCTATACCGGGCGCAGCAA   2711   CGCGGTGAATCGCAGCGCC   2712   CACCGAATCAAGCCATATGGCTCT   2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAATTGGCTCT   2715   TGCATGGTATTGCGTGCGATAGG   2716   GGCCGGACCTATTGAGATAGG   2716   GGCCGGACCTATTGAGATAGG   2717   TCAACCTGAGTCCTAGAGCATAGG   2718   TGCTTACCGTATCCCAAGC   2719   GGAGAGTTACGCGATAGG   2719   GGAGAGTTACGCGATAGGCCACCT   2720   CGGTATGCGGATCAGCCTTCGT   2721   GTAAGCCGGGTTACGCACCT   2722   GCGTAGTCCGAACCCCCGACCTA   2723   TCCTCGCGGCTTACACAATTCCG   2724   CGACGTTCAAAGCGGAGAGGAGG   2725   CGAGGCACCCGACATATTCG   2726   CTATTTCGTGCCGCGTTCGAACAG   2727   GGCTGCTCAGTGACGACAGC   2728   ATCACTCGTGCGCGTCAACTG   2729   CGACATGTCAATAGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGCTCTATACCGTGGCGAAAGCG   2732   TCAGGGCACCCATAAATGAAA   2731   AGCTACGTGTCTCTATACCGTGGCGAA   2732   TCAGGGCGACCATAATGAAA   2731   AGCTACGTGTCTCTATACCGTGGCGAA   2732   TCAGGGCGACCTATTTTTTCAGCGGCG   2734   TGGTTCTGTTATTTTTTCACCGGGCG   2734   TGGTTCTGTTATTTTTTCACCGGGCG   2734   TGGTTCTGTTATGCCCCG   2734   TGGTTCTGTTATGCCCAAAAGCG   2735   TCCAGTCGTTCAAGCCAAAAGCG   2736   AAAAATCACCTGGAACATCACCGCAACCCAAATGAAA   2736   AAAAATCACCTGGAACATGCACCCAACCCGCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCAAACAAGCAAAACAAC	5	2705	TGCGCGCTAGTGCTGCCTATGATC
2708   GAGGCGGTCGAGGCTCACATATT   2709   CGAGGTTAGACCCAC   2710   AACTTGCTATACCGGGCGCAGCAA   2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCACAGCGC   2712   CACCGAATCACAGCGCC   2714   AGAAGCGCTATCACAGCGCC   2714   AGAAGCGCGAAGTGTACCCCGCAT   15   TGCATGGTATTTGCGTGCGATAGG   2715   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGACGGTTACGCGATCAGCCACCT   2720   CGGTATGCGGTTCAGGCACCT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGGAGGG   2724   CGACGTTCAAAGCGGGAGAGAGG   2726   CTATTTCGTGCCGCGTTGAACTG   2726   CTATTTCGTGCCGCGTTCAACTG   2728   ATCACTCGTGCACCTCACTG   2729   CGAGATGTCCTATCGTCAACTG   2728   ATCACTCGTGCTACCGACCTC   2729   CGAGATGTCTATACCGTGCGAA   2730   TCACACGGAGCCCCAAAATGAAA   2731   AGCTACGTGTCTCAAATGAAA   2731   AGCTACGTGTCTCAACTGAACGGGCGAACGCCCGACCTACTTGAGCAAAGCG   2732   TCACGCGAGCCCCATAATGAAA   2731   AGCTACGTGTCTCAACTGACCGACCCGACCTACTTGAGCAAAAGCG   2732   TCACGCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCAACTGACCGACCCGACCCGACCCGAC		2706	CCATCCTTTGCCTTGAGGGTAAGG
2709   CGAGGTTAGACGCCTATGACCCAC   2710   AACTTGCTATACCGGGCGCAGCAA   2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCAAGCCATATGGCTCT   2713   TTCACAGCTATCCAGGCGC   2714   AGAAGCCGAATTCAGCCGCATT   2715   TGCATGGTATTTCCCGCGAT   2716   GGCCGGACCTATGGTGCC   2716   GGCCGGACCTATGTGAGATAGG   2716   GGCCGGACCTATGTGAGATAGG   2717   TCAACCTGAGTCCTGAGACC   2718   TGCTTACCGTTCAGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGACAGCCTCT   2721   GTAAGCCGGGTTACAGCTTTCGT   2721   GTAAGCCGGGTTACAGCTCTGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACAGCCCCGACCTA   2723   TCCTCGCGGCTTACAGCCCCGACCTA   2724   CGACGTTCAAAGCGGGAGAGGAG   2724   CGACGTTCAAAGCGGGAGAGAGG   2726   CTATTTCGTCCCGCGTCACACACCCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2726   CTATTTCGTCCGCGTTACCGTCCACCGTC   2729   CGAGATGTCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTACCGTGGCGAA   2731   AGCTACGTGTCTACACGGCGCGCCCGACCGTC   2732   TCAGGGCGAGTTTTTTCAGCGCGCG   2734   TGGTTCTGTCTATTTTTCCCCCG   2734   TGGTTCTGTCTATTTTTCCCCCG   2735   TCCAGTCGTTACCGTGGCGA   2736   AAAGATCACCGTGAGCAATAGCC   2737   TAGCAGGACTTGACCTTCAGGCCCCCCCCCCCCCCCCCC		2707	AACAACAGCGTAAGACGGACAGGG
10	·	2708	GAGGCGGTCGAGGCTCACAATATT
2711   CGCGGTGAATCGCATACACAGCGC   2712   CACCGAATCAAGCCATATGGCTCT   2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAAGTGTACCCCGCAT   15   TGCATGGTATTTGCGTGCGATAGG   2715   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAGATAGAA   2717   TCAACCTGAGTCCTAAGC   2718   TGCTTACCGTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGACAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTTACAGCTTTCGT   2721   GTAAGCCGGTGTACAGCTTTCGT   2722   GCGTAGTGCGACCCCGACCTA   2723   TCCTCGCGGCTTACAGCCCCCGACCTA   2723   TCCTCGCGGCTTACAGCCACCT   2724   CGACGTTCAAAGCGGAGAGGG   2725   CGAGGCACCCGACATGTTGAGAT   2726   CTATTCGTGCCGCTCCGGACAAG   2727   GGCTGCTCAGTGACACTG   2728   ATCACCTCGTGCACCACCTC   2729   CGAGATGTCCTATACCGTGCGAACAG   2728   ATCACCTCGTGCTACCGACCGTC   2729   CGAGATGTCCTATACCGTGGCAAA   2731   AGCTACCTGCTCTAAAGCAAA   2731   AGCTACCTGACCAAAAGCG   2732   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACCTTCTCGAGCAAAAGCG   2732   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACCTTCTCGAGCAAAAGCG   2732   TCACACCGAGCCCCATAAATGAAA   2731   TGGTTCTGTCTATTTTTCACCCGC   2734   TGGTATGCCCAGGATCCACCCTAC   2735   TCTCAGTCGTTAGCCCAACCGTAC   2735   TCTCAGTCGTTAGCCCAATGGCG   2736   AAAGATCACCGTGAGCGATCGGC   2737   TAGCAGGACTTGCACTGTGATGC   2738   TGCCCACGGTACCGTTCAAGCCTG   2738   TGCCCACGGTACCGTTCAAGCCTG   2739   TGAGGTGCCCCCCATAAATGAAA   2740   AGCAAGGCTTACACCCGCAACCC   2741   CACAACAGCCAGTATTCGCCACAA		2709	CGAGGTTAGACGCCTATGACCCAC
2712	10	2710	AACTTGCTATACCGGGCGCAGCAA
2713   TTCACAGCTATCCTAGGCGCTGCC   2714   AGAAGCGCGAAGTGTACCCGCAT   AGAAGCGCGAAGTGTACCCCGCAT   AGAAGCGCGAAGTGTACCCCGCAT   TGCATGGTATTTGCGTGCGATAGG   2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGATGAGCCACCT   2721   GTAAGCCGGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTGGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACAGCCCCGACCTA   2724   CGACGTTCAAAGCGGGAAGGAGG   2725   CGAGGCACCCCGACATGTTGAGAT   2726   CTATTTCGTCCGCGTCGACCAAG   2727   GGCTGCTCAGTGACGTGTCAACTG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCAGCGAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTATGCCCAGACACCGCCGCTC   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGGCG   2736   AAAGATCACCGTGGACACCCCCCCCCCCCCCCCCCCCCC		2711	CGCGGTGAATCGCATACACAGCGC
2714   AGAAGCGCGAAGTGTACCCCGCAT		2712	CACCGAATCAAGCCATATGGCTCT
15		2713	TTCACAGCTATCCTAGGCGCTGCC
2716   GGCCGGACCTATGTGAGATGGAAA   2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGGAGG   2725   CGAGGCACCCGACCTA   2726   CTATTTCGTGCCGGTTCAAAGCGGACAAG   2727   GGCTGCTCAGTGACGTCAACTG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTTCTGTCTATTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGCCATCGCGACCGTC   2736   AAAGATCACCGTGGAGCAATGGCG   2737   TAGCAGGACTTGACCTGATGCC   2738   TGCCCACGGTCCATCAAGGCTG   2738   TGCCCACGGTCCACTCAAGGCTG   2739   TGAGGTGCTTCAACCCGCAACCC   2739   TGAGGTGCTTCAACCCGCAACCC   2730   TGAGAGGGTTACAACCCGCAACCC   2730   TGAGAGGGTTACAACCCGCAACCC   2731   TAGCAGGACTTGCACTCGTGATGC   2732   TAGCAGGACTTGCACTCGTGATGC   2734   TGCAACGGTACCGTTCAAGGCTG   2736   AAAGATCACCGTGAACGCTTCAAGGCTG   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTTCAAGGCTG   2739   TGAGGTGCTCGCCCTAAGTAATG   2740   AGCAAGAGCCAGTATTCGCCACAA		2714	AGAAGCGCGAAGTGTACCCCGCAT
2717   TCAACCTGAGTCCTGATCCCAAGC   2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGAGAGGAGG   2725   CGAGGCACCCGACCTAAGCGGACAAGGAGGAGG   2726   CTATTTCGTGCCGCGTTGAGAT   2728   ATCACTCGTGCGGCTCAACTG   2729   CGAGATGTCCAACCGGACACGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2731   AGCTACCGAGCCCCAAAAAGCG   2732   TCACACCGAGCCCCAAAAAGCG   2733   TTCGTTCTGTCTATTTTCACCGGGCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGGCG   2736   AAAGATCACCGTGGAGCCCATCGCC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTTCAAGGCTG   2739   TGAGGTGCCTCACCTTCAAGGCTG   2739   TGAGGTGCCTCACCCCCAAAACCCC   2740   AGCAACAGCCAGTATCCCCGCAACCC   2741   CACAACAGCCAGTATTCGCCACAA	15	2715	TGCATGGTATTTGCGTGCGATAGG
2718   TGCTTACCGTTCAGGGAGGCGTGT   2719   GGAGAGTTACGCGATGAGCCACCT   2720   CGGTATGCGGTGTACAGCTTTCGT   2721   GTAAGCCGGGTCTCGTGTCGCCGT   2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCGACATGTGAGAT   2726   CTATTTCGTGCCGCGTCGACAG   2727   GGCTGCTCAGTGACGTGCAAAG   2727   GGCTGCTCAGTGACCGGACAGG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGCTCCAGCAAAGCG   2732   TCAGACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGCGG   2736   AAAGATCACCGTGGAGCACATGCGC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCACGGTACCGTCACGCTGCCCTAAGTATGCCCAGGATCCAGCCTGCCCCTAAGTATGCCCCCCCC	Į	2716	GGCCGGACCTATGTGAGATGGAAA
2719 GGAGAGTTACGCGATGAGCCACCT  2720 CGGTATGCGGTGTACAGCTTTCGT  2721 GTAAGCCGGGTCTCGTGTCGCCGT  2722 GCGTAGTGCGAACGCCCCGACCTA  2723 TCCTCGCGGCTTACGTCAAATTCG  2724 CGACGTTCAAAGCGGGAGAGGAGG  2725 CGAGGCACCCCGACATGTTGAGAT  2726 CTATTTCGTGCCGCGTCGGACAAG  2727 GGCTGCTCAGTGACGTCAACTG  2728 ATCACTCGTGCGTACCCGACCGTC  2729 CGAGATGTCCTATACCGTGGCGAA  30 2730 TCACACCGAGCCCCATAAATGAAA  2731 AGCTACGTGCTCTAAACGGCG  2732 TCAGGGCAGTTTTTCAGCGGCG  2733 TTCGTTCTGTCTATTTTTCACCGGCG  2734 TGGTATGCCCAGGATCCAGC  2735 TCTCAGTCGTTAGGCCAATGGCGG  2736 AAAGATCACCGTGGAGCCAATGGCG  2737 TAGCAGGACTTCAACGGCCG  2738 TGCCCACGGTACCCGTCAAGCCCG  2739 TGAGGTGCCTAAAGTAATG  40 2740 AGCAAGAGCTTACAACCCGCAACCC  2741 CACAACAGCCAGTATTCGCCACAA		2717	TCAACCTGAGTCCTGATCCCAAGC
2720   CGGTATGCGGTGTACAGCTTTCGT		2718	TGCTTACCGTTCAGGGAGGCGTGT
2721   GTAAGCCGGGTCTCGTGTCGCCGT		2719	GGAGAGTTACGCGATGAGCCACCT
2722   GCGTAGTGCGAACGCCCCGACCTA   2723   TCCTCGCGGCTTACGTCAAATTCG   2724   CGACGTTCAAAGCGGGAGAGGAGG   2725   CGAGGCACCCCGACATGTTGAGAT   2726   CTATTTCGTGCCGCGTCGGACAAG   2727   GGCTGCTCAGTGACGTGTCAACTG   2728   ATCACTCGTGCGTACCCGACCGTC   2729   CGAGATGTCCTATACCGTGGCGAA   2730   TCACACCGAGCCCCATAAATGAAA   2731   AGCTACGTGTCTCGAGCAAAAGCG   2732   TCAGGGCGAGTTTTTCAGCGGCG   2733   TTCGTTCTGTCTATTTTTGCCCCG   2734   TGGTATGCCCAGGATCCAGCCTAC   2735   TCTCAGTCGTTAGGCCAATGGCGG   2736   AAAGATCACCGTGGAGCCAATGGCGC   2737   TAGCAGGACTTGCACTCGTGATGC   2738   TGCCCACGGTACCGTCAGGCTG   2739   TGAGGTGCGTCACGTTCAAGGCTG   2739   TGAGGTGCGTCGCCCTAAGTAATG   40   2740   AGCAAGGGTTACAACCCGCAACCC   2741   CACAACAGCCAGTATTCGCCACAA	20	2720	CGGTATGCGGTGTACAGCTTTCGT
2723   TCCTCGCGGCTTACGTCAAATTCG	ì	2721	GTAAGCCGGGTCTCGTGTCGCCGT
2724   CGACGTTCAAAGCGGGAGAGGGG		2722	GCGTAGTGCGAACGCCCGACCTA
2725   CGAGGCACCCCGACATGTTGAGAT		2723	TCCTCGCGGCTTACGTCAAATTCG
2726   CTATTTCGTGCCGCGTCGGACAAG		2724	CGACGTTCAAAGCGGGAGAGGAGG
2727   GGCTGCTCAGTGACGTGTCAACTG	25	2725	CGAGGCACCCGACATGTTGAGAT
2728   ATCACTCGTGCGTACCCGACCGTC		2726	CTATTTCGTGCCGCGTCGGACAAG
2729 CGAGATGTCCTATACCGTGGCGAA  2730 TCACACCGAGCCCCATAAATGAAA  2731 AGCTACGTGTCTCGAGCAAAAGCG  2732 TCAGGGCGAGTTTTTTCAGCGGCG  2733 TTCGTTCTGTCTATTTTTGCCCCG  2734 TGGTATGCCCAGGATCCAGCCTAC  35 C2735 TCTCAGTCGTTAGGCCAATGGCGG  2736 AAAGATCACCGTGGAGCGATCGGC  2737 TAGCAGGACTTGCACTCGTGATGC  2738 TGCCCACGGTACCGTTCAAGGCTG  2739 TGAGGTGCGTCGCCCTAAGTAATG  40 2740 AGCAAGGGTTACAACCCGCAACCC  2741 CACAACAGCCAGTATTCGCCACAA		2727	GGCTGCTCAGTGACGTGTCAACTG
2730   TCACACCGAGCCCCATAAATGAAA     2731   AGCTACGTGTCTCGAGCAAAAGCG     2732   TCAGGGCGAGTTTTTTCAGCGGCG     2733   TTCGTTCTGTCTATTTTTGCCCCG     2734   TGGTATGCCCAGGATCCAGCCTAC     35   TCTCAGTCGTTAGGCCAATGCGG     2735   TCTCAGTCGTTAGGCCAATGCGG     2736   AAAGATCACCGTGGAGCGATCGGC     2737   TAGCAGGACTTGCACTCGTGATGC     2738   TGCCCACGGTACCGTTCAAGGCTG     2739   TGAGGTGCGTCGCCCTAAGTAATG     40   2740   AGCAAGGGTTACAACCCGCAACCC     2741   CACAACAGCCAGTATTCGCCACAA	!	2728	ATCACTCGTGCGTACCCGACCGTC
2731 AGCTACGTGTCTCGAGCAAAAGCG 2732 TCAGGGCGAGTTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2729	CGAGATGTCCTATACCGTGGCGAA
2732 TCAGGGCGAGTTTTTTCAGCGGCG 2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA	30	2730	TCACACCGAGCCCCATAAATGAAA
2733 TTCGTTCTGTCTATTTTTGCCCCG 2734 TGGTATGCCCAGGATCCAGCCTAC 35 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2731	AGCTACGTGTCTCGAGCAAAAGCG
2734 TGGTATGCCCAGGATCCAGCCTAC  2735 TCTCAGTCGTTAGGCCAATGGCGG  2736 AAAGATCACCGTGGAGCGATCGGC  2737 TAGCAGGACTTGCACTCGTGATGC  2738 TGCCCACGGTACCGTTCAAGGCTG  2739 TGAGGTGCGTCGCCCTAAGTAATG  40 2740 AGCAAGGGTTACAACCCGCAACCC  2741 CACAACAGCCAGTATTCGCCACAA		2732	TCAGGGCGAGTTTTTTCAGCGGCG
2735 TCTCAGTCGTTAGGCCAATGGCGG 2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2733	TTCGTTCTGTCTATTTTTGCCCCG
2736 AAAGATCACCGTGGAGCGATCGGC 2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2734	TGGTATGCCCAGGATCCAGCCTAC
2737 TAGCAGGACTTGCACTCGTGATGC 2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA	35	2735	TCTCAGTCGTTAGGCCAATGGCGG
2738 TGCCCACGGTACCGTTCAAGGCTG 2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2736	AAAGATCACCGTGGAGCGATCGGC
2739 TGAGGTGCGTCGCCCTAAGTAATG 40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2737	TAGCAGGACTTGCACTCGTGATGC
40 2740 AGCAAGGGTTACAACCCGCAACCC 2741 CACAACAGCCAGTATTCGCCACAA		2738	TGCCCACGGTACCGTTCAAGGCTG
2741 CACAACAGCCAGTATTCGCCACAA		2739	TGAGGTGCGTCGCCCTAAGTAATG
	40	2740	AGCAAGGGTTACAACCCGCAACCC
2742 GGCAACACCATACTCGACGAGCTC		2741	CACAACAGCCAGTATTCGCCACAA
		2742	GGCAACACCATACTCGACGAGCTC

	2743	GGCTGGATTGACAATTTAGCCCCT
	2744	CGTGAGAAATGCTACACGCGTCAG
	2745	CGCATCTGCCCCATTTTGTTCCTT
Ţ.	2746	GTCGGCCTAGTCGGCAGAACGGTG
5	2747	TCGACACGCGTAGCAGCGTGGACA
	2748	TCCCTCACCTTCCAAAAATGTGCT
ĺ	2749	GGGCAAGAACATGAGAACAGACCG
	2750	TCGTCCTGGTACGACTTGCGTAGA
	2751	TGGCGGTTGCATGTGATGATCAAG
10	2752	CCTCGCGTGAGTAAAAACCGTCCG
	2753	ACTTCCGCCACAGAATGCGGCCAG
	2754	GTGTAGAGCTTGGGTAGCCCCGTT
	2755	CGCAGCATCCGAGTTAACACACAT
	2756	ATGAGCCTGGGATGATCCGCTGGT
15	2757	CCTGGCATAAGTGCCGACATGCTT
	2758	GCGCATGAAAAACTACGACGGACG
•	2759	AAAGATGGGTCGATGGGAGCGTCT
	2760	ATCCTGGGCACGAGCGGATTTATC
	2761	TCACCGCATTTGATAGTTACGCGA
20 \cdots	2762	TGGTGGAGCGGACTCTGGTGTTAT
	2763	CACAATGAAAAAACAATGGCCCCA
	2764	CCTTGCCGCGCTTGTGGTACCAAC
	2765	CCGAGACCTTTGCCACACGAAAGA
	2766	ACCGCGGTGTACACCTGAGCAGGC
25	2767	GTCGTACGCTTACCGCAGCGGAGA
	2768	TCGTAATTTGACCGACACACGCAG
	2769	CCTAGACGGATACCCTGAGCGGAA
	2770	AAGCGACAGCAGAGGTTCAGTCGC
	2771	GCGTGGACGATATCACCTGGGCGT
30	2772	GTCGGAGAGCCAGTGGTACGGCTT
	2773	TACCCTCCGGACCAGCTGTAATGA
	2774	TATCCGCACGGTATAGCAGTTGCA
	2775	CATCAGTCGGGCTACCTTCAGCCT
	2776	CGGATTAATGCCTTTCCTCGGAAT
35	2777	TTCGTCGTGCCAAGCTAATGCAAG
	2778	CCACTACGGATCAGCACAGGTGTC
	2779	GGCCGAGACCACCAGTAACAGGTT
	2780	CGCGCGGAAGCATTGAAGTTACTA
	2781	TCGGCTTACCGCTTCGTCTGACTT
40	2782	GACTGACGTCAAGGCAAGCACAC
	2783	AGAGGAAGGAGGGCTGTGACAGA
	2784	TTCCAATGCGAGAGATGGCAGGCT

[	2785	AAATGGGGTGCTTCGAATATGTCG
	2786	GCTGTCGGATTATTGCACGCCTGT
. [	2787	CCGACTTTGTTTATGTTGCTGGCG
	2788	GCTGCGATATAACCCGTCCCAGAA
5	2789	TGAGCTGGGCGTCAACTCCGAAGA
ĺ	2790	CCCAAGCATCCTAAATCTCCCTCG
	2791	CGACAGCAATCCACATGCATTCTT
·	2792	TGAATGGTCGGGAAACCAATGCAT
	2793	CTTTGCATCGAGATGCGGGGTAGC
10	2794	TCCATTTCCTCCGCAACTCTCAGG
	2795	CCACTACGCCATCCTGACAACGAG
	2796	TAGTAAGGCCAATGTACGCCGTCC
•	2797	GTCATGCATATGGGGCCTGTTTTC
	2798	ACCGGTAGACGTTAGCGGGTTCAA
15	2799	TTGGTTCAAACGGCCACACGTCTC
	2800	GACACAAACTGCAAGGGAGGCATG
	2801	CTCGAGCGCTGTCATCATATCGGC
	2802	GCGGCTAAGGCACAAGTAGACGTG
	2803	ACAGCCTAAATGGCGCAAGACCGA
20	2804	GCCAAATGCTTGGAATTTGCTTCG
	2805	CCGATGATGTAAGCCGTCGGCCCT
	2806	AGGAGCAAACAACGCCAGTGACA
	2807	ACGAATTGGGTAGCCGGACTGAGA
,	2808	CTGTTCCAGTTCGGCAAGTGCGGC
25	2809	AGACAAGTCAGGAACGCGTTTCCG
	2810	AGACGACGGCCAGATACGCTGCCA
	2811	AGGAAGCGCTTCTTCCGGTTCTTC
	2812	GATGGACGCAAACACAAGGCGATC
	2813	CGCATAGCAGTCTCCGCATCTTGG
30	2814	TGGTTCCGGTGTGCAACAGATAAA
	2815	CCGTATGCCACCTCCAGAACTCAA
	2816	GTAAAGGAACCCCTCGGGAATCCT
	2817	GCCTGATGCTCGTTAAAATTGCGT
	2818	TCGCACTTGGACCATGAGATCTGA
35	2819	TTCTCAGGCTGGGCAAGAGTCTGT
	2820	CGGACCTGGGGATGCTGGGATTAC
	2821	TCGAGCCGATAGGGTTGGCATTGC
•	2822	TACGTGTGTCCCACACACGTCGTA
	2823	TGTGAAATTCGCGTTTCGCATCTT
40	2824	TTGCAATGCTCCAAAAAAACTGCC
	2825	TCTCATCATGGCTGTGGCTTTGAC
	2826	ATTACACCGCTTGGTTTGGAGTGG

ſ	2827	CCCCTCCAATCCACACACTTCAAC
}		GCCGTGCAATGCACAGAGTTCAAG
	2828	GAGATCAGACCGTGTCGGATGCTG
	2829	CCACCTATCTTGATGCGACCTGGA
	2830	CCGATCGCCGTTTATGTCTACGGC
5	2831	GAAAATCACGGTAAGGCACGTTCG
	2832	GATTCTCGCTTCCCAACGAGCATA
ļ	2833	CCAGAGCAGCATTCCACAATGGTG
	2834	TGTGAAATGTGGCAGTCTCAGGGA
	2835	CGATCCTGCGTGCCTCATCCAGGC
10	2836	CCCTCAAGTGGGCGAGGGTTTTCA
	2837	TCGCCTCGCCTCGTGTGTAGAAG
	2838	TTCGCTTTCAGCTCATTGGAACGA
	2839	TGTAATCTGAACAAGCGGACCCCT
	2840	TGGAATCTTTCTTGAGCGCCGTGA
15	2841	GGCTTTCATCTTTAACCGCTCGGT
	2842	TGATCCGAGCCATTCCTAATCACC
	2843	TGGTAGGCGTGATGTCCTACGCAA
	2844	AGGCATCGGTAAGAAGGCCCTATG
	2845	CGCCGCGAGACGATCCTTATTATT
20	2846	ACATGGACGAAATTACGCCCGTCA
	2847	ACAGAAAGGTGGGGAGCCTAGCGT
	2848	AGGCTTGCGAACATGGGTAGTGAC
	2849	GCGTGGGCCTTGCTCCTGTTTAAC
	2850	GAATACAGAGCGTCCGATGTGCCC
25	2851	GCGACTCTGTAGGGAGCGCGATAT
	2852	GGTGCACTCATATGCGTCGCATCG
	2853	CTGTCCCACGGGGAAACCTTACTT
	2854	TGGCTTACTGTCGCAATCTAGGCC
	2855	GCACTCAGTTTCCGGTATCCCATG
30	2856	GTGAGGTTCACGTAAGGCACAGCG
	2857	GTAACGCCTTTGTCCCCAGCGTAT
	2858	GCATTGATATGGTCGGTCTCGCCT
	2859	GTGGGTTTAAGTGACAACGGACGC
	2860	CAAAACCCTGCCGAAGATGTTGGT
35	2861	TCCGAGGAGACTGAACCTGCTACC
	2862	CGGGGAAGAACGGATTCGCTAAAT
	2863	TGGTTAGCTTATGTCGGAGCCACC
e e	2864	ACGCGTCGATGAACTAAGGCTCGC
	2865	TTCTCCTGACGAGTACGCAGTGGG
40	2866	TCCGCGGTTGCCGGTTTGTTAGGA
	2867	TGGCGCATCTTTCAGGGGATGATG
	2868	TCTTTGGTCCTTGGTGTTTACGCG
	2000	TIOTTIGGICCTIGGIGITIACGCG

[	2000	IOAGAAGTGGGGGTAGAAAGGAGGG
	2869	GAGAACTCCCGCTACAAAGGAGCC
٠ ا	2870	TTAACGTGGGAACCGTTGGTGAAT
	2871	GGGACACCATCCTTGGGTTTGTTA
	2872	CAACAAACCGCCTTGGGAAGTGAC
5	2873	TTGAAGGCCACCGATACTGATCGC
	2874	TCGTAATAGAACTGCGCCCAATGC
	2875	GGCACGTTGCCCAAGTTGGATCCA
	2876	ACATAGCTTGGCCGGACACCCACC
	2877	CTTGCCGCCTTGCGAGTGGCTAAA
10	2878	AGTTCCGCGTCCTACTTCAACGCT
	2879	AATGGCTCGCCAGATACCGCAGCC
	2880	CAAAAGGCGTGTCCGAACTTTTCA
	2881	CGTCCACTTAGGTGGAGATACGCC
	2882	GAGCCTCTTCGTCCTGAAGACCGA
15	2883	AACATCAAGCGGCAATCTCCCTTC
	2884	CGTCCTGACATTATTAGCGCGTGC
	2885	TGTGCAGACCCTAACGACCTACGG
	2886	TTAGGTCGGCCTAGACCCTCCGTA
	2887	TCACATCGCTTAACTGAGCGCATT
20	2888	AGACCTTCCCACGCGAGATGCTAC
	2889	TTCTTGCCAAAATGTGTCCAACCA
	2890	CAGTTTTCATTGCAGCGAAAGCAA
	2891	GTGCCGATCCCGAGACAAGTTCCG
	2892	CATCCGGCCTCAGTGATTCTTACC
25	2893	TGCTGGAAGCCACAAACGTTACGT
	2894	GAACGGCCAGGGGACAACTATCGT
	2895	TCATCTAGGTCGAAGCGCAAGACA
	2896	TTTGGTTACCAGCACCCATGTTCC
	2897	GACAACAGTCTGTCCGCCACATCC
30	2898	GCCAACAGGAGATGCTTGCACCAT
	2899	CTAAGGACGCATTGACCCCTGAAC
	2900	GGTCGCGTAGTGAGTCAGAGGCGT
•	2901	TTACCTCATGAACCCTTCGCGGCG
	2902	TATACAGCATCGTCGCCGGGCATA
35	2903	GCTTAGTGGCGTCTTCGTCGTAGG
	2904	TGCACTCCGCAACCTTGTGAAATC
	2905	AACCCGTCATGCCGACTCCATCTA
*** **	2906	AGCACTAGTGGCGTGCGACTTTGC
	2907	TAAAAAGTGCCGCTAACCACGGAG
40	2908	CGCGGAATATTTGTCGTCCGATTC
	2909	TTCTGCTATGCGTATGGGGGCCCG
	2910	CGAACTACTGCGTCAGCCTCTCCC

	2911	AGATGACGAATTAGCGGGGTTGGG
	2912	AATAACAGTGGCAATGAGCGGGAA
	2913	ATATGTTGATTCCCGTGCTGCACA
[	2914	AGAGTGGGCACCACCAGGCAGACA
5	2915	AGGCCTGGGTTTCTGCGTCTTAGT
	2916	ATGACTTCAGGCACCTCAGCACCT
[	2917	CGGACGTGACAAACGGACATACCC
	2918	CAAGTGTTTCGGCCCAACTCTCGA
	2919	GAACCCTTATCGGGATAGGCCCAA
10	2920	CAGGACGATACCAAGCAGAACGCC
	2921	GCGTCTTGTGATTCTGCCCTAACC
	2922	AAACAACCATCAATGTCGGGTCCA
	2923	TGTAAAGACCAGTTGGCGGCTCTC
	2924	GCGTTTTGACTCGGTGGTCAGTCC
15	2925	TGTATGGAGGCACGGCAAAGTCTT
	2926	TTACCTAGGTTCCCGCTGACACGC
	2927	CGGCTCGTGGGAATCCTCTGAAGA
	2928	CCGGCTCGGGCATTTCTTGGACCT
	2929	CAACGATGGAATTGTCTCCTTGGG
20	2930	CGGGCTATTATCGGGATTATGGGG
	2931	ACGTACCTGAAGATGCAACGGCGG
į	2932	CATGGTGCAGCACGCACAAGTAAC
	2933	CGTCGATATGTCGGGCTATTGCCT
	2934	AAATGCAGGGTTAAGAGGAGGCCC
25	2935	TGCAAGGACTGATTCTCCCGCTGT
}	2936	GTTTTCGGAACGCCGCAGAGTTCA
	2937	CCCTCGATGGTTCATTGGGAAGAC
	2938	CCTGTTCGCTCATAATGGTGGGGT
	2939	GAAAGAACGATCGCGGAATAGCTG
30	2940	TCCACCTGTGTGCCTTTATCCTCA
į	2941	TCCTCCGTGAACCGCTGTAGCGCA
	2942	GCCCCAGAGAGTCCCTGCTCCCTA
	2943	TTGAGATTTTTACGGTTTCCCCGC
	2944	CGATAGGACGTGGGCATGTCCCAG
35	2945	CCCGAACTTTGAGATCCGAGAACA
ļ	2946	TCACGCAGCTAGAGTCGCGTTACC
	2947	AGATAACGCCCACTGACGACATGC
	2948	ACGCTTAGAGCTCCGATGCCGAAT
	2949	GGGCGATAACTTAAATTGTGCCGC
40	2950	AGGACGTTCATGCGTCTCTTTGCA
	2951	CGGCTGGTAGAACTGTGCATCGTA
•	2952	TTCGAAATGTACTTCCCACGCGGA

1		
	2953	GCAGGTTGGCTGTCTTGTGGAGTC
	2954	CGTTTGGTTGCTTCAAGAACCGGT
	2955	CATACTTGGTTGTTGTGCCCACGC
	2956	GGGGTCGGCTGAAGTGTTTTATCC
5	2957	GTGACGGTTGATTAACGACCGTGG
	2958	CTTATGGCAGCGCCAGGGGCACTC
	2959	GTTAGGGGACCCACCTCGTTTGAT
	2960	CAATATAAATGCCGCGCATCGAGT
	2961	TTCTTCATCAGCAGTCCCCGAGAA
10	2962	AGTTGCGTCCCTTGATGGCATTTT
	2963	CCGACTTTCGTCCACGATTCCTCT
	2964	ACTTGGCCGGACGACAGCAAAGAC
	2965	CACCGCGGTAGATGTATCCCTTCC
	2966	GTTAGCTTTAGCTCGGCACGCCTG
15	2967	GCGCATAAGAAGGTCCGCTAAAGC
	2968	ACATCATCACGCCTGGCGTGACCA
	2969	CCGGCGAAGTTTGGTGTGATTAGA
	2970	TGGGAAGGCAACATGAAAGTCCTT
,	2971	TGCACCGCCAGATTGTGCTGAGTC
20	2972	ACATGTGAAGTGAGTGCCGTCCAA
	2973	CCTCTGGAGGGGATTAGCCACGCT
	2974	CAATAGCCATGTCACTGGCAACGG
	2975	ACCCATGGTTCCAACGTTCTTTCG
	2976	AATCTGGTCTTGGCATCCTCCAAA
25	2977	GTATACCGGTGCATGCTGAAGCAA
	2978	AGTGTTCTGGTTCGAGTCGACCCG
[	2979	CGGGTATTCGACACACGAGGAC
	2980	AGTGCAACAGAGCGCTTGGTCACG
	2981	TGCACCTATAGTTTGGTGCCGGTG
30	2982	TGCTCACGTACCAGGACACTCGAG
· [	2983	AGTCCACACCTCGAACGACAGGCG
	2984	CGCCGACCTGGTCAAAGAGCGCTA
	2985	GCCTAAGGGCCTGTCGTTTTCCGA
Į.	2986	TGTGCGTGCTTATGTTCCGGTCTC
35	2987	CAACCGTTGGCCGTAACAAAAATC
	2988	CGAGAATCAAGGCGTACCATCTCG
Ĺ	2989	GCGTAGGCAGCCTCCAGGGAATGG
	2990	GATGGTGTTTTCGCCAAGACCAAT
	2991	CAAGCTAGGGACAGAATTGCCCAC
40	2992	TAAATAGGCGAAACCGTTCGTGGC
	2993	TCAAGACCCGCAATGTGTTCATGT
. [	2994	GCGGCTGGTAGACTCTTTGCACAA

ſ	2995	CAGGCGTAAACCTGAACCAAACGG
	2996	GCCGATCTGTGCTGAGGTTCATCA
ļ	2997	GATATCGCGTCGCAATATCACGCG
Ţ	2998	CCCTGCACGATTAAGCCACCTGTA
5	2999	TGACATACAGATTTGTGTGGCCCC
Ī	3000	GTTTGCGGCCGGTATTCACGATGT
1	3001	TTTTACCTGGCCATTGGTGAGCTC
ļ	3002	CTCTACTCAATCAGGGTGGGAGCG
	. 3003	GGGTTGGAGGGAGTCTTGACCATT
10	3004	CGAGGTCGGTAAGGAAAAGCTTGC
	3005	CTTTACGCAGGCACCTCCGAGCTG
	3006	CATTGTATGGCCACGTGATTGACG
	3007	GTACGGTGCGAGAGCGCCTAAGCG
Ì	3008	TTCCATATGCCGAAATGGACACAA
15	3009	TACGCCTTCCGCTATAGCTCGTGA
	3010	CTGGCCGCTCGGCTAGCCATCAAT
	3011	CTGTACGCCACGCATGAAGGGTGA
	3012	CTTACGCGTCCAATGACTGCCACC
	3013	CACATGGTAGAACTCGATCGGCAG
20	3014	CGCACCGGAAACTAGTGGATGTGT
	3015	ACTATGGCAACCGACACTTGGTCC
	3016	CTAGTTTGCGCTACCCACCTGCAA
	3017	TAGTATCGCCCGACAATAGCCTGG
	3018	CCAATATTTACGGCCTGATCAGCG
25	3019	ATGGCTATCCCTTACTGGCTCGCC
•	3020	CAAAACTTGGCAGGCTTGGGACTT
	3021	AATGACCGAGGCTGCAAGATTGAC
	3022	ATCATCTTTCGCCACCAGACATGG
	3023	CGTTATTACCGATGCACACGTTGC
30	3024	CACACTGGCAATCGCCTCCCTCGT
•	3025	AGGTTGGTAGGAAATCGGAGCGCT
	3026	GCTGAACCACTGTGGTCAAGATGC
	3027	CGTTGAGTACGACACGGTCGAGGT
	3028	TTTTTCCGCCGCAATGTGATCTAA
35	3029	ACAATACCTCGACCGCTCAGCATC
	3030	AGTATCCCTGCTGGCATACACGGG
	3031	TCTTGGGCTCGGTAGTTCAGCACT
•	3032	CCCTATATCGAGCCCATAGGGCGA
•	3033	CACGAGTGGCATCAACGGCCTACT
40	3034	TGCAGGGTCCGATGTGTTCAAGTA
	3035	GCTTGACCGCTGCTAACCTCGTAC
	3036	TTTTGCATCTCCACCATCCAGA

-115-

· [	3037	AGAATGTGCACCGGCTTCCATCTT
	3038	TGTTATGACCCGCTCTGTGGCGTG
	3039	GGAGCTCCTGTTTCATCGAGGCTA
{	3040	CATTTTGCTGTTTGGGGGTCCCAT
5	3041	CCCGCTCCTTCACGTGAGACGAGA
Ţ	3042	GCGCTCAAGTCGATTGCCACAACC
	3043	CGGTTGACGGAGACCGCAGTACTT
	3044	ACTCAAGACCGGTGCACCTCCAGC
	3045	TGGATGTCGAGCGTGTCTGAGTTT
10	3046	TTTCGTGTGCATGCAAGTAATGGC
[	3047	GCGGCGTTAGCTCGAGCTAACAAA
	3048	GGGTATCCTGCCCGAGCAGTAATT
	3049	GGCTCCGAATCTCTTGTCCGGTCT
	3050	AGGATGGCCACGCCGAATCAAAGT
15	3051	GTGCGGGGACGTTTACATAACGAG
	3052	ACTITTGACCTGAGGCCGCTTGCA
	3053	ACTCCGCTTCAATGGAGACCGTTG
	3054	GATCGGAATTCGCCGCCATATTGA
	3055	ATGCGTGCCCATGGAATGACTTTT
20	3056	CCGCATCGCACGAAGGCAGGTCAT
{	3057	CACCCTATGCGTCTCCAATTCCTG
	3058	TGATATGCATCGCTGAGCCTCTGT
	3059	AGCTTCACACGCTCACTGAACCTG
	3060	AACCCGGAACCTCCTCTCACTCGG
25	3061	CTCGTCAAACTTGGCCGAGGAGTC
ĺ	3062	GTAGCTGGCAACAGGCAATCAGGA
	3063	CTTGTCACGAATATTCGCCAAGCG
	3064	CAGTATCTGAAACACGGGGTGCTG
	3065	GGCTAAAATGGGCGCCCACGTGTA
30	3066	ATGAGAGCCAAGCGCCTCAACTCC
	3067	TATTGTTAGGCACCGCTTCGCGCT
	3068	GGAACTAGATTGCCAGTGCTCGCC
	3069	AGTCGACCCCAAGGCAACTGGGTC
	3070	GGTACTGTTAGCTCGACGATGGCC
35	3071	CCGCAATACTTGACGGTAACAGGG
	3072	AATTCCGGGTTTGAACGGTTGGAA
	3073	GACACGCAATCGGGTCTATGCGAA
•	3074	GATTTTGGCGTCTCATTGCGTGAT
	3075	TGCCATAGGGAGGAAACGCAATTA
40	3076	GAGGTGCCCATGTTAGTGGTGTCC
á.	3077	GCTTTAGCGGTCATACGACCACCA
	3078	CCGCTACCAACAATCCGATTAACG

_		
	3079	CATAGTGGGCTGAAACCCCAGGAA
	3080	GAGGATCTGGCCACATCGAGAAAG
	3081	CTCGTTTGGTACCACGTTTTGCCG
	3082	AATACACGCGGCGTAAACAGACGA
5	3083	TGTCATGGGCCAAATGACAGTGGC
	3084	ACAGCACTTCCGACCCGTGTACGA
	3085	CTCCGTAAAGAGCACAGCTTTGCC
	3086	ACGAACAGGTAGGGATCGGTCCTC
	3087	TGGATCCACCTTACCGCGCCATCG
10	3088	AGTATCAAATAGCGGCGCGCAAG
	3089	GAATTACATTGTGGATGGAGGCGG
	3090	CTCCTCGGGGAGTCGAGGAGTACG
	3091	AGTGTCGAGCCAACTCCCACCAAT
	3092	AAATGACATCCGTTTGGCCACAGC
15	3093	CGAATCATATCGCCATCGAACTGG
	3094	TATAATGCACTCGCTTGGTGCGCA
	3095	GCCAAGCAGATGGTAATTATGGCG
	3096	CACGCGGGAAGAGCACGTAGAACT
	3097	TACCCGAGAATTTGGAGAACAGCG
20	3098	TGACGGCAAACTGTGGCATCTATC
	3099	CACAGTGTTCCAGCCCTTGACGAT
	3100	TACCCGCCCACACATGAAAGTTGG
	3101	TGGCATATTTAAGATTCGGCGACG
	3102	ACTGAAAAAAGAACGGGTAGCGGG
25	3103	TCTGACCGCAATAGGTGGTCATTG
	3104	ACTITITGGCGGGCCCTCTCTCGT
	3105	CTGCCCAGATCATTGCGCGATCCG.
	3106	CGGAGGTTAAATGCTTTAACCGGC
	3107	AGGCGTCTCCAAACGTCCTTCTGT
30	3108	AGATGCTATCCTGAGTGGGCCTGC
	3109	ACAGGGTGAAGAGACCGTGGGATG
	3110	GACTGTCTAACGGACGACGACG
	3111	AGCTGTTAGGACCCGACAACCGGT
	3112	TTGCGTAGTGTGGGCATTTCCTCT
35	3113	ATGCGCGCTTCTTTCCTTGATGTA
	3114	TTAAGGGCGTCCGCGTCTATTCAG
	3115	ACCTTTAAACTTGTACCGCGGCCC
	3116	AGGGATGCAGAGGCACCACATGTT
	3117	CGGTTCGACGTATGAGCATCCGCA
40	3118	CAGGGCGATAGTCACATGGAGGTT
	3119	GCTTGACTGCCCCGTTTCATATGT
	3120	CGAAGGGTTGTGCAATTACCCGA

<b>\</b>	3121	AAAACGCACCGCAATGACAAAATT
	3122	ATTCCTGGACAAGACCCTCAACCG
Ī	3123	CCTACCTGCCTGCTAGCGGTGAGG
Ī	3124	GCTCGTAAATGGGGAGGAATTGGA
5	3125	ACATGAAAACAGGCTCAATTGGGG
	3126	GTTCCGCACATGGATTGAGGTCTC
	3127	GGCACCCAATACCACGAAGAAGAA
	3128	AGGGGCATTTCGAACTCCATCTTT
	3129	CATCATCACAAAGGAACGTCGGTG
10	3130	TAAAGACCCACCGTCAGCAGCAGC
	3131	CCCCAGGCGTAATGCACCACATAG
	3132	GCAGGTCGAACGCTAGTGGTTGAA
	3133	GGAACTTAGGAGTTCACGTCGCCA
	3134	GCAGATACGGCTAGCTGAGGTGGC
15	3135	CACAGGCCTAGAGCCTCGGCGTTC
	. 3136	GTTTTGCGCGCATGAGGTTCATTA
ļ	3137	TTGCGCCTGATGCCAGCAGTACTA
	3138	GATATCAGGCTTTCCCACTGCCGC
	3139	TGCGCGGAGACGGAGATCTATGAA
20	3140	CATTGGTGTTGGCTGAGAGTGGAC
	3141	GTCGGCACTTGGGCACCATTAATA
	3142	ATCGATCGGTGTCTCACCACGGAG
:	3143	CGTAGCCTTCCACCGTGTCGATAG
	3144	CGCTCTCCGTCTGAGGAAAAGGGG
25	3145	TCGCCCAGCCAAGGATATATTGC
	3146	TCTCTTGCAAGGAACTCTGCCGTC
	3147	GTCCTGGACAGACGGAGGGTGTTA.
·	3148	GCCAAATTAAGCGGGCTCGTAATC
	3149	CCATTTGTTGACCGATGGGAGGGG
30	3150	TGGTCAAAAGAGCACGATCCAGGA
	3151	CGCTACTAAGACGCCCCTGTCCAC
	3152	CATACCTCCCGCTTGGATTCACTG
	3153	CCGCGGAAGGAATGTCATCTACAA
	3154	CACGGGACATTCATTCACAGGACG
35	3155	ACTAGTGAGGCGTGAGGCGGCGT
	3156	AGGAGTCACCCACTCCGCACAAAA
	3157	TCATGACAGCGCACCCCATACCAT
•	3158	GGTAGGGGACTATCGATCGTGCTG
	3159	ATGTCTCACTACCGCACGTAGCGG
40	3160	TACTGCTCCGGTCTTCCGCAGCTT
	3161	ACGGAGGAGCGACTCGTTCGCTGC
	3162	GAAGTCTGTCGCCGGTGGACGGAC

Γ	3163	CCGTAACGTGTATTCGGACGAGCG
Ī	3164	CGTGGAAGCGACTTAACCAATCGT
ľ	3165	GGCATGGGCTATGCCTCACACTAG
	3166	GGGTCGTATTTCAGCATCGTTCGT
5	3167	AATGGTCGCGCAAACCGTAAGAAT
	3168	CTGGATTCGGTACGTCCAACGTTT
Ī	3169	CGCAAAAACACCCGTAGCCAAGAA
1	3170	TATGGATACGCTTTTGGACTGGGC
	3171	GCTTCAAACGCGCTTCACGCTGGT
10	3172	TACAGCCCGCTCTACCTCGCCACC
	3173	TCAACCGATGTCAAAATGCACGTT
	3174	AGCTCTCCGAAGTAGGGCGGTA
	3175	ACGCACACATGGAGACTTGGCTCC
	3176	TTCTTGAAAGCTAGTGGGGCGCTA
15	3177	CAATCACGGCTGGGCTATTCTGTG
	3178	GTGGCGACCCGTCGGTGAAAGAGT
	3179	CGTCGAATGCCGAACCAGTTAAGT
Ì	3180	TGCGTATTTGCATGCTCACAGCTG
	3181	CGCAGTTGGTTTGTGCACGGCTGC
20	3182	GTTTTTCCGTGAAAACTGGCATCG
	3183	ACAGGTTCCTCCACCACGATTTGA
	3184	CTAGCGCGCTTTTAGGTCCTTGCG
	3185	CAAAATCAAAGGGATCAACCGGTG
	3186	AACGTAACCCCAGTGAGTCAGGCA
25	3187	TCAACCGGTGCACTTTAGAACGCC
	3188	ATCGCAAAGTTGCAGGCGAATACT
	3189	ATATGTCCCTGGGTGCTGCACAAC
	3190	TGGCACTTTGTAGTGCTGCGGTGG
	3191	ACGCACGACGTCCTTCTAAGCTCG
30	3192	CCCACGTGCACTATAGGGATTTCG
	3193	CCGCGCTTGGTCAGTCATCCTTGC
	3194	AGCGGCTCAGGGAATAACAACAGG
į	3195	ACAACGCGATCGGAGGCAACCAGT
	3196	AGCAATTGCCTCCGTAGAAACCCA
35	3197	GAGTCGTGCCATCGCCTATCG
	3198	TCTATGCAAATACTGCGCTTGCGA
	3199	TCAGCTTAAGTTACGGTGTGGCCG
	3200	TCCAAGGTCGAACAGGGATCAGAA
	3201	GTTAGGCTGGCGTCAATAGCGCTT
40	3202	GGTGTCATAAGGAAGAGGGCATCG
	3203	CCGGCGGCTAGATCAATATTTCT
	3204	CTAACGTCAAGTTTTACGCCCCGA

-119-

Г	2205	GCAGCACAGTTTTCCGATTTGCGG
	3205	CGCACGCAAGGGGAGGGATGACTG
	3206	CGGGGCCGAAAAGGACGTCACAAG
}	3207	
	3208	TTCTCCAACACGGCTAACCGGTAG
5	3209	TTACAGCCTGGCCCGAGGTAGTTG
	3210	TTTCGGGCAGCATGAGTTATCGAA
	3211	CTACTGGACGCCCTGCTTCGAAGT
	3212	GGTCGTCCGACGTGAAAAGACCAA
	3213	GTTTTCGAGCTCTTTCTCCGCAGG
10	3214	GCGTGAAGGTACCCAGTGTCACAG
	3215	TTTCTGAACGCTTCGACGCAACAC
	3216	TGCTAATAAGCACGCCTAGCCCGT
	3217	AAATTAATTGTGGTGGCTCCGGCG
	3218	TTACAATCCTCGGGCTCACTGACA
15	3219	GCTGAAGGACAAGGCGTGGGCAAC
	3220	GGGATAGGAGACCCTCGCAATGGT
	3221	TTGCAGTACGTCCTTGCGCATGAA
	3222	TTGATCACTGGATTGGGTGCGAAC
	3223	TCTGCAGACGTTGCGAGAGATGAT
20	3224	AGTCTAGCAGGGATCGAAGCGGAT
	3225	GGGGTCCCGCAACAACTAATGAAG
	3226	CAACCTCTTATGTGGTGTGCGCGA
	3227	CTCGCTGGGTTGCTGGAGTAGCAC
	3228	CGTTGTATTGTGCAACGCGAAGTT
25	3229	GGGCTCAAAGTGCCTGAGTCGAAA
	3230	CTGCTGTGCCCTCTCAGTGAGAGC
	3231	CGGACGTACTGTTCGGAGTCCTCA
	3232	GTATACCACCATACCGGGACCGCA
	3233	CTGCTGCGAAGGGAGACACGTCCG
30	3234	AAAGAACGTGGAGGATCCATTGGG
	3235	TCGATTGGCTGATCTCCAGCCTAC
	3236	CTGCGAATTCGAAGGTTGTTACGG
	3237	GCAGGAGGTCAGGAGTACGTGAG
	3238	ACCAACGGAAGGGAACTTAAGGGC
35	3239	ATGATGGAGGCTGCGTTTTGGTCG
	3240	AAGCCCAATTTACCGCTCCGAATA
	3241	CTAGGCTGTGCGGGACTAGAGGTG
	3242	TGCCATCTGACCTGGTGATTGCGT
	3243	GTCGTCAACTTTTATCGCGCACCT
40	3244	TTGAATGTAGGCTGCTGCAAGCGC
••	3245	CACCTATCGTGGCCTCTGTCCCAG
	3246	GGAGCGCCAGTATAATGAACGTG
	<u> </u>	100,000000,000,000

ſ	3247	AATGGGGTTCTTAGGGTGCCGTA
	3248	GCCATGAGGAAAAGCACTGGGTCT
	3249	TCCGGGTCGTACTGTGTATGATCG
	3250	GGAGGTTATGTGCTGCTGATGACG
5	3251	CTTCAGCCGTGAATGGTGTGAAAG
	3252	CTTCAAGGGCTTCGTCTCGTG
	3253	TCAGGGGTCACGCATTGGGTTTCA
;	3254	ACGGTCCTCGCATAATGGACCACT
	3255	AGGCGTAAACGCCGGTCATAGTCT
10	3256	GATCTGGTCGGAAAACAGGAGCGC
·	3257	CCCATCGATGTTATTTCCGACGCA
	3258	TGTTTCTCCGCATCAGTACCGCAT
	3259	CGGACCGGATCGACAAGTAGTCA
	3260	AGCCAGAGCATGAACTGGAGCGTC
15	3261	TGGAGTTTACATCGGAACGCAGGG
	3262	TCGACCACCGGTACGATACAATCA
	3263	GCTTGTGGAATTCCGACGGTTCCA
	3264	CACATCCACCCTACTGAGGCACAA
	3265	GCCGGATGAATCTGCCTCGCTACA
20	3266	GGTTGCAATTACGCCGGGATTAAA
•	3267	ATTTCCTCGCAAATCGTCTGGGTG
	3268	GCTCCTACGCCATGTGCACGTTTA
	3269	AGGGTTGTCGAAACATGGGGGTGA
	3270	ACGCGACCTGCTGTCAGCGTGGTG
25	3271	CGCCTAACTAGGGGAGTGAACGGA
	3272	GTTGACCTCCGGATTTGCTCACGA
	3273	TACCTCCGTCATTCACTCTTCCCG
	3274	GGCGTTCCACATGTAATTGGGTCT
	3275	CGCATCACGATCGTTAGGAGGGAG
30	3276	GGGCATTAAGCACGCACTTCGTCA
	3277	TTTCCATAATTCGACACCACGCGG
,	3278	GACCATGAGATGCTTTTCTTGCGC
	3279	CGCGGTCGTCCTCAGAGAATGTTG
	3280	TGCTGTGACGATGGCTCCTACCCG
35	3281	GGCGAATGCTTCTTCGCATCAAGT
	3282	AAATGCACAGCGGAACTGACCACA
	3283	TATCGACCTGGAACACGATCGGTT
	3284	CATTGAAGTCATGAAGCCTGGTGG
	3285	CTTTCAACCGTAGTGGCTTGGGCA
40	3286	CCGGTAAGGTCGAATTGGAGCCTA
	3287	GGATTGAAAAATCGCCGGAAGATC
	3288	TGAAATTGTGAGGGAGCCTTAGCG

į	3289	AGCGGGATCCCAGAGTTTCGAAAA
Ì	3290	CGAGTGTCACTGGTCGGTTGCTCA
	3291	GCAGCATCCGTTCCCCTATAGTGG
	3292	GTATTCCTGACCGGCTGAGTGTCG
5	3293	GCAGCGTATGGGGTTAGCCAATGA
	3294	CGCCCTGGTGGAGTTGTATGATGA
	3295	AGGTAGACTGCCCGCGGCAGAGCA
	3296	ATGCGTGAGGAACTGACTTCGGAC
	3297	ACGGGAGAGGACATGCATTTTCAA
10	3298	ATTCATGCAGGAAGTCCGAGGGAA
	3299	AGCTCTCCGAAGTAGGGCGGTA
	3300	TGGCCCACATGATTGGAGCTCCAA
	3301	GCCCTTTGCTTGCATTGATTGATC
	3302	AGGAGATTCTTCGGCTCATCTCGC
15	3303_	GCAGCTCCGCCAACGAACTTATAG
	3304	TGGGTCAGCTTCGGCCAGGCTGAT
	3305	ACGCTCAGCGTGCGCTAGATACGA
	3306	GCAACGAGAGCGAACGGTTAACTC
	3307	GAACACAAACAGAGGTCGTCAGCG
20	3308	CGTGCGTTAGCGTCGGCGTATGTT
	3309	GTGCTAGCCGAAAGTAGCGTGCGA
	3310	CGCGGAGGTTTGCAAGTTGTTAAC
	3311	TACTGCCCGGCCTGAAATGACTTA
	3312	CATGCGCACATGAGGGTCACCTTT
25	3313	CTCGGGTTCTGAAAGCGATGCTTC
	3314	GGCACACGAAGGCTGATGATA
	3315	GGAGGCCGAGTAACCTTGAGGGTC
	3316	ATTCCTATCGCGCGTGCTTCTAGC
	3317	TTGCCGGTGTGTTCGTGAGCTGTT
30	3318	TTATGGGAATCTACAAAGGGCCGG
	3319	GGGTGATCCAAAATCCACGGAGGC
· •	3320	GCGAGATGAGCAAATTGTATCCCG
	3321	CCTGCACACATCATGTCTCAATGC
	3322	GGCAGCGTAGGGATTTCCTAGGGG
35	3323	AGAGATTGCTCCTATGTCGGCAGC
	3324	CCAATACCCTGGTGACCACTCCAA
	3325	GACGTCTGTTATGTCGTCGCAAGG
	3326	CCACAACGTCGAAATGACCTACCA
	3327	CTTGGTGGCATGCATGCCTTGCCC
40	3328	TACGTTCGCCCGACGTGGAATAAA
	3329	GGAAGAGAAACCGACAGTCGCGA
	3330	GACGAACAAGAATTTGGGGCAACC

_		
,	3331	CGTGCCCGCGAGTTCATGGTGCTA
	3332	AAGAGAAACCCTTTCCGGAGCTCA
	3333	TTTTAAATCTGCCGCCCTTCCATG
	3334	TCTGAAGCAATTTGGCCTCCTCAA
5	3335	GATGCGCAAGAGGGTATTATGGGC
	3336	GTGAAAATCTCGCAACTTCCTGGC
	3337	ACGGGAAGCGGTGAATTGTTGGTA
	3338	GCCCTACTATTGCCTTGGCAATGA
	3339	GTAAATGGCAGGAAGCGGCTCTCG
10	3340	AGGTGCCAAATAGTGGACTGCGGT
	3341	TCGGATGGTAGGAGGCGAGATCGG
	3342	GAGGTGAAGGAACAGCGACGCTAA
	3343	ACCGTCGTTACCGCTCTGGTGTCG
	3344	TTCCAATGTCCGACATGCTATGCC
15	3345	CGGCTTTATAGGTCCAACATGGCG
	3346	CCGGCCTGGAAAGCAGAGTTATTG
	3347	TTTATCGTTCAACGCTCACGTCCC
	3348	AGACCCGCTGAACGGAGCTTGGAT
	3349	ATCCATCAGGAGAAAGCTGGCTCA
20	3350	TTGCCAATGCGTAAATCGGTTCTC
	3351	GCTTGGCAGAAGGCGTACACTAGG
	3352	AGGCTCCAATGCTTTAGCCGCAAA
	3353	GATACTAGGAGCGAGCCCCTTTGG
	3354	GTCGTGTGCAGCCGCATATGGAGG
25	3355	TACCCCTGTTGCGGATAGATGTCG
	3356	TAGGGTAACAGAATGAGGGGCGCT
	3357	ATCGTGTCGGGGATCGAATTTGAG.
	3358	ATCTCTCGTGCGGTCTTGCAGAAG
	3359	AGAAGCCACATGTTAGTGCGGGAG
30	3360	ATCTGCGTTAACTGTCCCGACTGG
	3361	CGCTCACAACGAGCTTACTCATGG
• •	3362	TCTACGCTACGATCCGTTGCATCA
	3363	TTTAACACCGAAATGGGAGCGTCC
	3364	ACAGGGCGTAGTAGGCCGCTTTCC
35	3365	GTCGACCGTGTTTGTGGGGGATAT
	3366	AGAAGACCTTGGCAATCCGAGTCA
	3367	TTGGGTGCTTAAAATGCGGTCTGA
• !	3368	AGCGAAGTCGTATTGACGTGCGGT
	3369	ACTTTCAGCTCCCAGTAGCACGCA
40	3370	GCGCATGGTGAGTCCGTATTGCCG
	3371	GGGTCGTGTCAGAGGACAAACACC
	3372	ACAAGAGGACCTCCGGGTGAAAAT

	3373	TAGCGGGGACCTATCCGCCTCAGT
	3374	GCTCTATGCCATGTCCGTGGATTC
	3375	AGCTCATAATGCGCGTTGACCCCG
	3376	ACAGTGGAAACGTTTCATGCCGAG
5	3377	GGTTTCGACGAAAAGGATGGTCGT
	3378	GCGGTACGTATTCTAACCCGACGG
	3379	GGTATTCGCCATGCTTGGTCTCTG
	3380	GAGCCTCTCCGATTCTGGCCCAGA
	3381	TGGAACGTAATACGAACGCCGAAC
10	3382	GGCAGAAGTGGAACTGAGCTCGAT
	3383	CGGGTAGGCCTTCAGGGTACAGGT
	3384	AGCGATCTTGGACGCCGGCACGAT
	3385	GACCAGGTTGGTACAACGCCTTGG
	3386	GATGTGCTACAGGACCGCCTACGC
15	3387	TGAGGCGCACTCATTAGGAGGTGT
	3388	CACCTTACATCCCGAATCCGCGTA
	3389	CCAAACATAAGGTGTGTCGGTCCA
	3390	GCGTTTGCTAATGGTTGCGATTGC
	3391	CCCTTGCCCTCAATCTGTATTGCA
20	3392	ATAGTCCCGTGGCGACTGTGATCC
	3393	GAAGTTCCCGGCCCGAGTAACATA
	3394	GGGAGCCACGACAGAGCTCCTAGG
	3395	CTGACTCTTACGAAGCGCACTCGC
	3396	AGGTATAGCGGGGCGTCTAGCAAA
25	3397	TAAGACGCATTGCTTGGACCATCC
·	3398	GCCTAGTAGGCCACGGCTTCATGC
	3399	CGTGCCCTAGCATACAACGTTGGG.
	3400	GGGAATGCGGCAGTCTGTCTACCT
	3401	GTTGAAATACTGGCCCGCGGGAC
30	3402	CGGACAGGTGAACCCAGTCACCTT
	3403	CAACAGCCCGCTCCTTGGATATAA
	3404	TTAAAGGAATCAGGGGGACCCGCC
	3405	CGGGTTGTAACGCTGTTGGACGAA
	3406	GGTACGCAGCGGACCAATAGAAA
<b>3</b> 5	3407	ACTGCAAGCCTCTTAGTTCCTGCG
	3408	TCAATACCACCCAGAAACTGGGCG
	3409	GGCAGTTGACACTCATCGACCATC
	3410	TAGCACGGCCATAAGACGGTTGAA
10	3411	TCCACAATGTCAGCTCACTGCAAA
40	3412	CAGGCGGAGGGTTTTACATCCTA
	3413	AGGGCACTCGAAGATCCGACGGGC
	3414	CGCAATGCCTTTTGCTGTGGTAAT

-124-

	3415	AGAAACGCAGACGTGGCGTTTTGT
	3416	TGAGCACGAATGTCGAACAGTCAA
	3417	CTCGTTTCCATGGGGTAACCGACT
	3418	CCTCATAGCTACGGGTGGACGACG
5	3419	GTACGCCGTGTATCACCCCATTCA
	3420	ACCCATAGTTCGTCGATAGCGCGA
	3421	TCTGCAGTGTTGCCCCTCCGACGC
	3422	TGCACATGCAACTAATAGGTGCGC
	3423	CAGCGCAGTGCCTTACCAATATGA
10	3424	TTACGCGCCGAAAACACCTGAACA
	3425	CTCCCTCGCTTTATATAGGCGGCG
	3426	GTCGGACCCCGAGAGTCCTGTTAA
	3427	ATCGACGAACAGGGCCTCCGGCTT
	3428	TGGTTTTTCACCTCCGTCCTCAAG
15	3429	GGAGGGGCCAACTCCTTGACTTG
	3430	TCCTGTCTCGGCCTTTGGGAACTT
	3431	CAAGCCATTACCCGCTAGCTGAAA
	3432	CGCAACCGACATTATATTTCGGCC
	3433	TTGAGGGCGACTGCAACACACAGG
20	3434	GCTCGAGTAACACGGTTGACCCGA
	3435	CAGCCCTAGCGCCACGGTAAAATC
	3436	GTCATTAGCGACTTACCCGCCGTA
	3437	CCCAGTGGCCGGCCCTAGATAATA
	3438	CATTCCGTATGCTACTCGCGAACA
25	3439	AAGTTTAACGCTCAAGGGGGCCT
	3440	TTGGCGGTTCGGTACAGGATCCT
	3441	TACTGCGATGATGGGGATTTGACA
	3442	CGGTGAGCGAAGATCATCCCCTTA
	3443	ATGCAAGTCACCGACCGGCACCTC
30	3444	CAAGTGCCGCAATTGGCCTTTTAT
	3445	CCCGTGGTGGATACCTGGGTAAGC
	3446	CCGTCAGGGTCTAAGGACCAGGGT
	3447	CTTTCCGTAGGCGGTGATTTCCAA
	3448	GCTGAAACTGAGATGGTATCCGGC
35	3449	CCAACGAGACAGCATGAAGCTCCT
	3450	ATAAGTTCGTGGGCCGGCAAGGTC
	3451	GTGGCCAGGCCATAACTGGTCACT
	3452	CGCTTAGCGCGAGACTCTGAGGGC
40	3453	AAGAGCGCCCCTAGAACCCAAC
40	3454	CCACGGGAACGTCTACGAAATGAT
	3455	AGTCGTGTATCAGGTGCCGAGAGG
•	3456	TGAAGCGGCTGGCGATAAGTAGAT

		<u></u>
	3457	CTGAGGACGTGCGGTTCATGCTGA
	3458	GAAGGCGTTCGGAAAGTTTTTCGT
	3459	AAGAAAACCACGGCTGAGACCTGA
	3460	TCAGCCGCTGTTGCAGGGAGAAAA
5	3461	TTCTGGAAATGGATCGGATAGGCA
	3462	GGGAAATGGTCTTGTTGGCGACCA
	3463	GGTGTCGAAGCCACGATGTATCCC
	3464	CCCCGACTCCCTTCGGGCATAAGT
	3465	CCAAATGCGATAACGCAGCGTGAT
10	3466	GCTCGCCAACGTACGAGGCTCAGA
	3467	GGCTTATCAGTCGCCACCAGAGAC
	3468	GATGTGACCCATCCATTCCTGGGA
	3469	TCCTGGTTTGGTATCCCCGAATCA
	3470	CGCCCGTATATAGCCGGTAAGAG
15	3471	GGTTCACTGTAACGATCGCGGCAC
	3472	CCGGTATAGAGGAAACCCGGACGT
	3473	CCTCCCAGGAGATCCTACGCAATT
	3474	TGAAACTCGTCACGCTCCTTGCAG
	3475	TGTTGCGTAACCACCAACCCTCCT
20	3476	GCAGCGCAACCTTGTACTTCTTGC
	3477	CGCAAGTGGGAGCCCAAGAGTTTG
	3478	TGCAGGGTAACGAGGGTAAGTGGG
	3479	GAACTGTAGGGTCTCGCCGGTCAA
	3480	CGAGATGTCCAGCAGCGGTTGTTA
25	3481	TTGTGGTTGCTCCGGGTAAAAGGA
	3482	TCTACGCATCCCTGGGTAATTTGC
٠,	3483	AGAAGCTGCGAGTCACCGTGACTC
	3484	GGGCGGTGTTGAAGGGCTCTATAC
	3485	TTCCACAACGGGTGAGTAGGACGG
30	3486	GCAGCCAGACTGGCCTACCGATCG
	3487	CCCGCCGAGTTGGTTGGCTAAACA
	3488	GCTAGGGTGGTCCTTTCAGTGGGT
	3489	CGTGACTCTCTTTTTCGGCAG
	3490	ACTGCCCATGGGCCACTAGGCTTG
35	3491	GGCGTACGAAAAGGCCAATCACTT
	3492	ACTTGTGGTCGACAACGATGTGGC
	3493	CCACCACCCTGACCCGAAAAAAT
• • • •	3494	TGTTGTGCATCACAACATCAGGCC
	3495	GACCACCGGTAAAGAGGGATGGT
40	3496	GCCACCCTGAAGCACTCGTTATG
	3497	GCTACCAGTTGGAAGACGGGTTGC
	3498	CAACGTTCGCATCCCACAGTTGTA
		<del>-</del> -

	3499	TATCGGGTCGTAATGGGCAAAGAG
	3500	TCGGTGTGATTGATGGATAACGCC
	3501	AGAGGTCGAGAGCCCGATAACCTG
ļ	3502	GTAGTTAGGCGCGGCCCTGGCTCA
5	3503	TGATTCTCGATGTCACGCCGAACA
	3504	GATGGTTCGCCCTTGTGTCGCAGC
	3505	GCGCAGTTACGTCCATTGTCCCAC
	3506	CCGCCTGATTTAACAAGCCAAGGT
	3507	GACCAAGTGCAGGCGTCAGTCTGG
10	3508	CAAAAAAGCAATTCGCCCTGGACG
	3509	ACTGACCTTCTCGCTCTCCGTG
	3510	CTCGCCGTGTATCGCTAACCCTCT
(	3511	CGGCATTTTTCACATGCTGTGTTG
	3512	ACGTAACGCCTGATGGGGTACACC
15	3513	CCCTGTGACCGTGGGAGACACACA
{	3514	GCGCATACTCTGGGTAGTCGGCAC
	3515	TCCCCTGCCCATCTCTGAGTTAGG
	3516	TGCAGCGCTAACATAGCGGGTGCA
	3517	GCAGCGTCCACAGGAAACCGCAGC
20	3518	AGCGTACCATCGATGGGGATTCGA
	3519	TGGCCTCGCGATCACCACGATGTT
į	3520	TTGGTAATCACTCGGCCAGCGCTA
	3521	CGTTAGTAACGATCGTCGGTGCAA
	3522	AATCGCAGATGGTTCGTGGCACAA
25	3523	TAAAGCGTCTAGAGGCCGGCTGTG
	3524	TGGCTAAACGAAACTGGGAATCGG
	3525	CCTATGCAGCCACTGGTGTCCTTC
	3526	ACGTGAGATCCAAGGGTGGCTCCT
	3527	TAAACGCCAAAAACCACGAGCAGG
30	3528	CCATGGAATGGAAGCATTGGACG
	3529	ATGATCCCTGGGCTTAGTCGCCTT
* .*	3530	ACCGTATGCCTCAACAGAGTGGCT
	3531	CCACCAAATCGCATAAGCTCCACC
	3532	TCTCAGTTTAATCCCGTGATCGGG
35	3533	AAAGGACTACGCCCATCGCTCACA
	3534	CGGGAAGAAGGCCTAAAGCTTTG
	3535	TTTTGGACATTTTTCTGCATCGGG
-	3536	GCAGGGGTCCTTTTCCACGGTAAT
	3537	TCAAATAGGGCGTAGGCAAGCTTG
40	3538	ATGAAGTTCCATCCTGTCCGGGCC
	3539	AGAATGATTAAGCGCAAACGCAGC
	3540	GGCAGCAGAGAGTGGCCTAGTTCC

	3541	GTGCAGAGCCGGCCTTATGTAAGA
	3542	CATACGGGTATGGCGATGGTTACC
	3543	AAGAACAGGAACCGCTGACAAGGA
	3544	GATGTGTGCGCGTCCTTAAGGGC
5	3545	TATCCATGTAAGGCTCCTGAGGCG
	3546	AGTTTTTCCTAAACGATCCGCGC
	3547	CTGACCGGACGACCCAGAATGTAT
	3548	GCATGTGGTCAAAGCTTGTCGATG
	3549	CAGAAGTGCATGGGTTCGGATGAA
10	3550	ATAGCGTACCGGAGGGCTTACCAG
	3551	AAGACTTGGCGCTTGTGGGTAAGG
	3552	TATTGTGGCGCCTCACGCGCAATC
	3553	TCGGCCATGGGATTTCACAAAGTC
	3554	TGGTCGGTGCCGTTTCACCTTTAC
15	3555	CATTTCCGCGGGCAGGAGAAGAT
	3556	CCTGAGTCGCGATACGACTCAACA
	3557	AGGTGTACCGCCGTCGGGTTATAC
	3558	TCCTTGTACGAGCCAAGCCTGGGT
	3559	AGAAGCCCGAAGTCCCGTGTAGAC
20	3560	AGAGGGCCCTTAGGCAAATACGT
	3561	ATGCGGCAACATCCGATCGTAGAT
	3562	CGCAGTGGGCAGTAAAGACAGAGG
	3563	TCGGGTAGTGCAAACCTCAATCGT
	3564	TCTTCACTGTGGTGGACTTGGGG
25	3565	GTCCCAGGGCGATTGGTACTAAGG
	3566	GGTAGATCCAGCCATTGGGACCTC
	3567	GGGGATTGTGCGCTCCAAGGACCC.
	3568	CTCTGTCCTAGACTGAGCCGTCGC
	3569	CGATGAACAAATGAGTGCGTGTGA
30	3570	GAGGTCGAGCTGCCTGAGAGGAGT
	3571	CAGTGGGACTGCTAACGTGGGTCA
- we ,	3572	GAGTCGCTCGAGGAACTACGGCCG
	3573	CGGCTACGGAATGATGCAGGATGG
	3574	TCGCTCTCGCTATGGCAATTCTGG
35	3575	TGAATCACGGCCCTCTCTGGTACA
	3576	CAGGTGCCATCGAGCGCTTTAGTG
<i>,</i>	3577	TGGGAAAATCGAAATCGTCAGGAA
ŕ	3578	CGGGGAGGAAGATGTTCCAGCGGT
	3579	TGTGGACCGGTGGTCACGTCTTTT
40	3580	GCACGTCTCGCAATCTGCGATCAG
	3581	CCTAATGCCGTATCAGCGACCAGA
ļ	3582	ATAACGCGGGTGAAGGATTCGTCT

ſ	3583	TTCAACCTTGTGGGGCGTCCCACT
	3584	CTACTTCCAAATCTCCGCGTCGGT
	3585	AGCGAACGCACTGCCAGTGGATAC
	3586	GAAAGTGGCGGCGAGGAAAAACAC
5	3587	CAGGGGGCGCATATTTGACAGATT
•	3588	TAACTCGCTGCCCTCAACTCAGGG
	3589	TCGATTGTTGGGTCTACCGTGGTT
	3590	GCTGGGATTAGTGCCGGGTAACCG
•	3591	TGGTTGCAACATCGCGCTATTACG
10	3592	GGGCGTGCTTTGAGCTGAAGCGTG
	3593	ATGTTGAGGTTAGTCCCCGACCGT
	3594	GACCGCGTAGTTAGCAATGTTGCG
	3595	CCAACCCACTGACATCGATGGAAA
	3596	TGCTGCTATTGTCGCACCGATATG
15	3597	TACAAAGAATCGGGACCTGCGACT
	3598	GCGCCTCATCCCGCATCGAATTAT
	3599	CGAGGGATTTTGACCAGTGGATGA
	3600	TGATAGGCATACGCGGAGAAGTCC
	3601	CGAGTTGTCAACGGCCATCGAATT
20	3602	CCCGCACCGGATTATTAACGAACC
	3603	TCGTCCTTGGGTCCCATGTAGAAA
	3604	TCACGAAGCATCTTTGCGACGTAA
	3605	TGTAAGTTGCCAACTTTGCGGGTT
	3606	GCACACCACCGGCAGATATCAAGA
25	3607	GTGTGGTTTGTGAATGCGTGGTGA
	3608	CAGCTGCGGCCCCACCTTCGATAC
	3609	CAGCGAAGGACGACTACTGTGCAC
	3610	CAGCAGTTCGTTGCTTCCTGATTG
	3611	AAACAATGGAGTGTACCTCCCGCA
30	3612	ACTATACGAGCATCATGAGCCGGC
	3613	CTTGATAAGGTGGGATTCCGGGCA
- <b>-</b> .	3614	TTTAGTAGAACGCTGCGCGCGGTG
	3615	AACTGACGTTGAATAAAACCGGCG
	3616	GCTTTGTTCTACCGCGGATCATCA
35	3617	TGATATGCAGCGGCTCGGCCTTAT
	3618	CGGGAGTGCGTTTATGTCCATGAT
	3619	CAAATACCGGGAACGGATCGAAGC
	3620	GATCAAGCCGAATGCTTTGCAAAG
	3621	AGAGAGGATGCGCTCCGGTTAGAG
40	3622	CTTAGTCAGCATACCCGCGGGCAG
	3623	GTGTCTCGGGGCGCAGGACCTGTA
	3624	AACGCTCCACTGCCGTGATTCACT

Γ	3625	GATCGTTGAGTCATCCCGTGGAGT
	3626	CCTGGCCGGGTGCAATACTACAGT
	3627	CGTAGCCCGAACGTAAGGGTCAGC
	3628	CTGTGGCTTCAAGAGGATCCGTTG
5	3629	CTTGGGTCGGTGTAATGTCCTCGA
Ī	3630	GCCGTTGTGCGCTATTCTTACGGA
	3631	TCGCACGATGGCTAGAACGAGTAA
	3632	ATTTGTTGCAATGGGATGGCTCTG
Ī	3633	CGAATATCCGCTCGAACCTGACAA
10	3634	AAGTGGCGTGCGTCATAGCGCGAC
	3635	TGATGTCCCTCCACACCGTGAACT
	3636	CAAATGAAGTCGGGGCCAATATTG
	3637	GATGCATAGCGTGATTCCGGTGTA
	3638	GTGACCGTAGAAGCTCACCAGGGC
15	3639	ATAAGGACATATTCGGCCTGGGGA
	3640	AGATCTCACAACCGGAACCGGACG
	3641	GTTGCGTTTGGGGGCGTCATACAA
	3642	TGTGAGGTTTTCCTAAGGCGAACG
	3643	CATCTTGGTTTGCGAACGAACTCA
20	3644	TTCCTGTCACAGATTCGTGGCCTT
	3645	AACTTACCGATCCCTGAACGTGCA
	3646	CCTATTCTGGACATGCGGCCACAT
	3647	GTCGATGGGGAGCTCCAGTTGCAT
	3648	CGACCGTGAGGGTCCATACGTAGA
25	3649	TCTCGTTTGCACGCAACTGGGCCA
	3650	ACTCCGCCGAATGAAGGAATAGCT
	3651	CCTCGACCTGGCGTGATGGAAGGC
	3652	TAACAGCCGTTTTGCGGTTCACAA
	3653	GCCTCCTGCAGTACGGTGTCTGTT
30	3654	GGCAGTCGGTCCCACTTAGTTCGA
	3655	TAATCCACGGCTTTGGTGGAAGTC
٠.٠٠	3656	CGGTGCAAGATCCTGGTTGTGTGA
	3657	TTTCACCACTACCTTAGGTCGGCG
	3658	CATCCCGTACCGGGAGGACAAGTC
35	3659	ACGAGGTAAAGGGATCCGTGCTGG
1	3660	CTAATAGTTTGGCAGAGGGGCGCT
	3661	AGCATGGTAACCCTGAGCCAGCAG
•	3662	GGAATCCTTGTGGGAACAGCCGAT
	3663	CTGATGTGGGAAAGAGGGTGGGAC
40	3664	ACTTTTTGCAATCCCGGCGTTGTA
	3665	GCGATGACGTGACGAGTTCTCACC
	3666	CCAGGTATTGAGCCCCGCCATATA

_		
•	3667	TTGGACGTCCTCCGAATATTGGCA
	3668	GGTAAGTGCGGGAAGTACGCTGAC
[	3669	CCGCCTGAACCGTCGTAGGGATTA
Ī	3670	CGTTTTTGAGTAAGGATTGGGCGA
5	3671	TGTGGTATTGAGGCATAGGTGGCA
	3672	TCCGGAAGGAAGGCGCGATATGGC
	3673	GTTGAGCGAATCGGACGGCTTTAC
	3674	TGAGTCTCCGAACGACAAGCGATC
	3675	AGTGAAGAGGGAGAGTCCAACCCG
10	3676	GTGAAGCCTGACGAATCCAACGTG
	3677	GTGCAGGCCTGTATCCCCATGACT
	3678	GTGGGTTTCCTACACACCGGATGA
	3679	GCGCCGTCGACTCTCTTCAGCTGC
{	3680	CTAGGCCTGCCATCACTGAGCAAT
15	3681	TTGGTGATGACTCATGGCCAGACC
	3682	TATCTCCCGCGGGGTATATTACCG
	3683	CCGAGGGACACGTATCCCTGTTCG
	3684	TATCCCGCAGCACGCATTCGATCT
	3685	TGATGATAGAGCAGGGTGCCGTCA
20	3686	GTAGGAGCACACATTCGGATTCGG
	3687	CCCTTACTACGCCCAGCCCTTTTG
	3688	GTACCAGGGGTGTGCTCCAAGGG
	3689	TGACCAGGCGGACCAGACGGTTTT
	3690	CGTAAGCGGCGGTAGGTGTGCTAC
25	3691	CGCGGGGAGGATCAGCAGTTTTG
	3692	AAAGCGTATCCAGAAAGGCCATGG
	3693	AAGAAGAGACGCATGCTTGGACGT
	3694	TGGCCATTTGCGGGAGGTGGCTTA
,	3695	AACGCCGAATTGAGGAGGCGGTTA
30	3696	GCCTCATTACGACATTGGCAGCAT
	3697	TCGAACGCGATTTTGGAAATGCCC
• 🕶 .	3698	AGGAATTCTAGCCGAAAGCCCTGC
	3699	TCCGCTGGTTGGGTGCTCTGGTTG
	3700	GTCGCGCTCCGTCCGATAGTATGA
35	3701	TGTGCAAGGACGGATGATTGCACT
	3702	GGACAAGCGGCAACCTGGGAGAAG
	3703	ATGCGGTGGCTACGGACTAATCCA
	3704	TGCACGCAGGTGGAAAGCAGGCTT
	3705	AGATTGTGGGAGTTGTCACGCTCC
40	3706	AACAGCAGTGAGGGCTGAAGCTTG
	3707	CTGCCTGTTTCCTTCACGCTCCAT
	3708	CCAATCCACTTGAGTCAACTTGCG

. 5			
10			
15			
20			
25			
30		-w	
35	·		
40			

3709	CATTCTACCGCCCAACTTTTGCAA
3710	CGGAGAACCATGCTGAGCAGTCCA
3711	GACTGTTCCTCCAGAAAGGCGCAT
3712	AAATAATTGCTCCACGCGAAGCGC
3713	GGGCCTGGAAGACCAACCAAATAC
3714	ACGACGCGAGCACGTAGATATCAA
3715	TACGGGATCCTCGTGGCTACATCT
3716	CAAAGTCTCCCCGACCGAGTTGAC
3717	CCCGAGGCGAAGATCTCTAGGCAC
3718	CAAAATTCTCGCCACGAGACCCTA
3719	CTGTGCGCATTCCAAACACATCAC
3720	CATGGAAATGCCAGCTGCCTCCAT
3721	CGCGAAACCACAGTCCTCGTCGGG
3722	GTCCGCAGCTGTCCCGACATTGGT
3723	GTCTCATTGGGACGATCGTCTCGA
3724	AGAGCGTTGCATGCTTGGCTGCGG
3725	CTTCCGCCCCTGTTCGCAATGAGG
3726	TTGCGGTTCATACCGAAGCCAACA
3727	TGCGCGAGAATCGTTCGTACGACG
3728	TGTATACCGTAGGCGTCCGTGGGG
3729	TGCGGGGTATAGGGCTTCCTTATG
3730	ATCCCAGCCCAAGCAGCAGACGCA
3731	GTTCTTGGCCACAGGAATGGCCGT
3732	CACATGGGCATTAATTGCTACGGC
3733	ATAAGTCGGTCTGCCTGGCAATGA
3734	ACCTCGAGGCTGAGAACGTCAAAA
3735	GCGGAACGCTAGCCCCTTATGGTT
3736	TGCGAGGCTCCTGGAGCAATCCAA
3737	ACAGAAGGCCGATCGCTCTGGCTG
3738	GGTTGGCAAGGGGCCAGCTCCTAC
3739	ATCGCTTCGCTCTATGGAGTCCGA
3740	CGTCCCGATAGGCCGCCTTGATCT
3741	GAATTCTGAGGCGGCATTGTCCAC
3742	CAGCCCATCAGTATCGGCTGCGTA
3743	TGGAGAGTCGGATCCGTAGCGTCA
3744	TGGATCCAGTGCGAGTCTTGGCCG
3745	ATGCGGTCGTGCTTGGAATCCTCT
3746	ATCGCACTGCCGCGTCATAACAGC
3747	CACGTCTCCGCCGGAACACAACTG
3748	AAGACAGTGGGTGAACGCACGGTA
3749	ACGCGCATAGGTGGTCAAACATCG
3750	CCCGGCGGTAGAAATTGACAACCT

,		
	3751	AAGGGATACTCAGGCGCCTGTTTT
	3752	CTTCTCTTGTGCGGGCTCCCGT
	3753	TTGAAGGGACCTGCCAAATGGCGA
	3754	ACGCATGACGACGTCCAGTACGGG
5	3755	AAATGGATGTTACGCCGGCAAGCT
	3756	TCGTGCGAGGCCTCTTCGGCATAC
	3757	TACATCGCGTCGAGTCATTCTTGG
	3758	TCACACCACATAATGGCACCACGT
	3759	CAGGTTCACGGTTGAGGAGTGCGA
0	3760	GGTGTTACACCGCTTCGTTGTCCT
j	3761	ACAATAATAAGGGAGCATCGGCCG
	3762	TCGGGTCCTATGATCCAGTCCCAA
	3763	ACCCATTCCTCCTGCGGCGATCAA
Į	3764	TCGCAGGTGTAGACGGACGAAAAG
5	3765	CTCTTGCGTAGTAATCGGCCCGCA
	3766	TTCCGTGTCACGCGAGCCTGCTTT
	3767	ACTCTAAGTAGGGCTGGGTCGCGA
	3768	TTGGTGGCTGTAAAGGTGCTTGGC
	3769	CCGAATTACCCATTCATACGGCAC
.O	3770	GATGGATAGGTTCGCTTCCCGCAA
	3771	ATGACGGAAAGAATGTGATTCGGC
	3772	ACGGTTCGGCTTCTGTTAGTCACG
	3773	GGATCCCGTAATTGAGGCGGCCAC
	3774	ACCCGTTAAGTCGACGCCTGCGGG
25	3775	TTCGATGTGAACGGTTGGCCAACC
	3776	TCGATCGGGAGTCTACCGCCATGT
	3777	AGCAACGAGTTTATGAGCGCAGGA
	3778	TGGGAAACGAATGGGTGGCGGTTG
	3779	TCTGTGTTGCCCCACCTACAGCAA
30	3780	CCTGCATTGGATGTACCCGCGGGT
	3781	GAACGAGGTCCGGGTTTGCATCTC
•	3782	GGCGCCGAAGCAGAACGACCATAT
	3783	AGGCATCACGCATCAGGTACTTGG
	3784	TTTACAAAAGCATCGGCCCTGGGA
35	3785	CCCAGGCGGTCAACCAATTGTAGA
	3786	CTGCAGCACGTGCCTGAAATTCGT
	3787	CCGTTTTGCTCCAGCTATGAGCGT
	3788	ATTTGTGCCGCATTGGGGTTATTC
	3789	TAAGCAGAAAGCCGCAACTCCGGT
40	3790	GCGACTGATATAGTGCTCGGACCG
	3791	AACTCTATTCTGACACCGCCCGAA
	3792	GTGCGCTCCAAGAAGAAACACACC

	0700	100100100000000000000000000000000000000
	3793	ACGACCAGCGGTCTGAGATCTAGG
	3794	ATCCCCTCCTCAGGTCGACGCTGT
	3795	TGACATACGCGTCACCCAGCACAG
	3796	TAACCGCGACTCTGACTCCCTTGT
5	3797	AAGCGGTTTGATCTGTGCAATCGG
	3798	CTGTCAACTCGGTCGTCCGCACAG
	3799	AACTTTGCCGTTTAGGGCAGGTGA
	3800	GCTGAAGAACTCCCAATTCGCTGG
	3801	AAGATGCGATGGGTCAGTCCTCGT
0	3802	ACCCACCTCTGAAGGTTGAGACGG
	3803	AGGCTACGCACCCTCGAGAGTGAC
	3804	CGGTCACGAACGTGGTCCAGTTTT
	3805	CAAAGCAACGCGCGCCACTTAAAA
,	3806	ACGAGGAAGGAACTGATCCCCAGT
15	3807	TTCGCCACTATGGGCTCAGCATTA
4	3808	CGCTCGGCAGAGGAGTCCACTCAC
	3809	TGTTGGCACGACTCCGTCCATGAA
•	3810	TGCCTACCCGGTGATTGCGACATC
	3811	CAACGGTCGGATCTGAGGAGATCT
20	3812	CGTTACGAAGCGAAGTTCCCGAGT
	3813	AGTGACGCCAAAGTCGCCATTCT
	3814	ATTCAGCTGGGCATAGGCGATGGG
	3815	TAGGACAGCGTGGCTGGCTACACA
	3816	AATTTGTCCAGCTCTGCACGACCG
25	3817	TGAGTGGGCTGTGATCCGTTCCAC
	3818	TGTGGTGACACGCCAGAGCTGGTT
	3819	CCTCACAGGTGTGAGAGGAGCCGC
	3820	AGTCCCGCTTCTGCAAATTCCGAA
	3821	TCTGCGCCTACCCGTAAGCTGAAC
30	3822	GCCTCCTGAGTTGATTCATGCATG
	3823	CCTAACGGTTGGTTCGCCGTTTTT
· <del></del> .	3824	TCGCAAACCCACGAATGAGTCCCG
	3825	AGTGCTAAGGTGGGCGAGCAGAGG
	3826	CTGGAGACTGCGATGGCAGGGTTG
35	3827	AAGGGATAGTGATGGCGATGGACG
	3828	CTATCCACGGTGATGTCCGCCATT
	3829	CGGACTAGAACTTGCCAAGCACGA
	3830	AGAGCCGGATGGCATTGCATGAAC
	3831	AGTTGGCTAGCGGTCGAATGAGCA
40	3832	GCATGCGGTCACCGCTTCATCTAA
	3833	GTGAGATTCCAAGCTCGCCGGTGA
	3834	GCCATCCACCGCACAATGAACGCT
	3826 3827 3828 3829 3830 3831 3832 3833	CTGGAGACTGCGATGGCAGGGTTG  AAGGGATAGTGATGGCGATGGACG CTATCCACGGTGATGTCCGCCATT CGGACTAGAACTTGCCAAGCACGA AGAGCCGGATGGCATTGCATGAAC AGTTGGCTAGCGGTCGAATGAGCA GCATGCGGTCACCGCTTCATCTAA GTGAGATTCCAAGCTCGCCGGTGA

[	3835	GGGTGGTCCTCACTGTGGTTGGCA
	3836	AGGCGGCTACGACGAGCGTCGTTA
	3837	GCCAAGTGATCGTGCTTCCGCGTA
	3838	TAGCCGTTTATTCCCTTGATGCGC
5	3839	ACTATGTGGGACGAGCGTCTGCGA
	3840	GCACCTTCGAGAACCCATCAGATG
	3841	ATTTTCTGTACCGATGCTCACCGG
	3842	CACTGGAGCAATAAATGGCCAGGC
	3843	GGGTTCACGTATCTCATGGATGCG
0	3844	GCACGCTCCCAGTATGCTCCTTCA
	3845	GAAGGGACTTAGTCCGCGGCCCTC
	3846	TTCGTTACCCTAAGGGCGTTTGCA
	3847	GTTCCAGGTCACGACGAGCTGCGC
	3848	TCGTACGTAGTCACACCGCGACTT
15	3849	GGGCTGGAGTAGCGGTCTGCTATG
	3850	TAGCGGCACTCGTGTTGCGAGTGG
·	3851	ACGTTGGGTTCTGACACGGCGATT
	3852	TGTTGCTGCGCCCAAGTGATCTT
	3853	CCCAGGTCGTTACGGTGCATCACA
20	3854	CCTAGTGCACAGGCAAATCGGGCT
	3855	GGCGTTCTCCAAGATAAGGCCAAA
	3856	ACTTCGATACCGTGGACCTCGCCA
	3857	CTGAGCGCGCTAAACGTCCCTAGC
	3858	ATCAGATAAACGATCCGACGCGTC
<b>25</b> .	3859	CATGGCTGAATTTGTCGACCCTCT
	3860	CGAAAGCGAGCAAATAGAATCCCC
	3861	AGATTGCCCTGCGGCAGGTTGAAT
	3862	AAGAGGCGGCCGATCAGTTAGAAA
	3863	CTGATGCCTGTAAGGAGGCGCTCG
30	3864	AATCGCGAGGTTCGGCAGACAAAG
	3865	CGTTGGGACACGGACCGTTCACTC
	3866	AGATGTGTGCACTCGCGGTCATTT
	3867	CAACTCGAGTGGCGGTAACATCTG
	3868	ACCAAGGTTGCGATTACGGGAAGC
35	3869	CGAAGCGGTAGACGGCTCGCGTTA
	3870	TCTCGCGAACAGGAGGGAAGGCGT
	3871	GTCCCGATTTGCGCTGTGAGGAAA
·	3872	TACCACGCGTCGGCACGGAAATGG
	3873	AAATGCTACCCGATTGCGCGGGAT
40	3874	TCGATTCAGGTTTGTGCTGCGGAG
	3875	CCATCTCATCCCACTATGGCATGC
	3876	CTGGCCCGTGTTTGGTTGAGTCGA

	3877	GACACACGTTGCAGGGCTTCCC
	3878	TCGAATCGAGTCGATCGTGAAGGT
	3879	GAAAGCACTCGATCGCGTTGGATT
	3880	AATTACGCGAACATGGGGCGTCAA
5	3881	GTGCTAACACTGTGGTCGTTCCCA
	3882	GGTAAGCGCCAGCCAGGAGTTGTC
	3883	GGCGATCGTTCAGGAATCGCGTCA
	3884	CTGGCTAGACCTCCGACACAGGCT
	3885	CGGGTTAAACGCCAACTGGCCTAG
0	3886	ATCGCAGCCTGGCCGCCTAGTTTT
	3887	GGCGTAGCCTAGCAAATTATGCCA
	3888	ATGACGCGACGGAGACAATACGGC
	3889	GTTGCATCACGAAAATGCCGTCTT
	3890	GAGTCATGCGTTCCTCGCTTTACC
5	3891	TCTGAACCGGTTATCCCCAACCTC
	3892	TGCCTCTGGTAGGCGCCCAGTTAC
	3893	CTGACGGTTTTCATTCGGCGTGCC
	3894	TGAACACGAGCAACACTCCAACGC
	3895	CGGCGCGAAAGACTTGAACTTG
<b>!</b> 0	3896	GCTACGAGTACCCGTCGGAAACGC
1	3897	ATACCCAACAGCATGGAGCGACCA
	3898	ATCGCATCGCATCGTATTCACGGG
	3899	CGGCCTAGAGGTGCGAAAGCTATC
	3900	TAACGCTTTTCCGAGGCCGATTCT
25	3901	TCTGTCCTAGCACGCCGACCTGCT
	3902	CTCATCGTTCAGTCGGTCGTCGTA
	3903	TCGTCGAGCAGATAGCGGGGTAGG
	3904	TCGACCACAGTCAGGACACTACCG
	3905	TGCGATTCTATGATGTCCGAACGC
30	3906	CAAATGCAATGGCAAGCACTCACC
	3907	TCTAATCCATCGTTTTTTGGGCGA
•	3908	TCTCAACTCCGGTACGACGAAACA
	3909	CTGAAGAGGGTAGCCTGGGAGCGG
	3910	GGCACAATTAAAACGCGCGCGTT
35	3911	CAAAGGAGGTCAAAGGCCAGAAA
	3912	TTTGCGGCCGTGACGAGCAAAAAT
• •	3913	AGGAATGTGCGTGGCACCTGTGGA
	3914	TCGTGATGACTGCCTTCCGAATCA
	3915	CACGTCGACATGTTTGGTACCTCG
40	3916	TTGCGGTAGTTTGGTTACCACCGT
	3917	GCAGTGGCGACAAATACAGCTGAG
	3918	ACGGCATGATGGAGGGATAAACGT

	3919	TGGGATAATCCGCAAGCGCATAGC
	3920	CCTAGCTCTGCGCGTCTTTGCGC
	3921	TCCTGGAACTGCTGAAGGCGACTT
	3922	CGAAGGCGCATGGTGTAGTCTCC
j	3923	AACATTGTTCCCATCCCAGAGCAC
	3924	CCAGGCAAGAACAACCACGCGCT
	3925	AAATCCACAGGCGCGCCAAAGCTG
	3926	GCTCACCGCAGACTCCGCGCGATA
	3927	TAGGTGGCGAGAGAGCGCCCACAA
D	3928	GGCGTTGGTGTGTCGGGACCATGA
	3929	TCTGAATGCTTCCGTGCTTTCGTG
	3930	ACGCTCTGGACCTCGCTCATTCGA
	3931	TCCTTTATGCGCAGCGCTCGTGTT
	3932	TTGCCGTCCTGCAGCAGGTAGCTC
5	3933	GGTCTAGTGGCAGCAAGGAGCGAT
	3934	GGTAACGCGACCAGCTTAGACACC
	3935	GTGGCGATTGGCTTCCTATGCATA
	3936	TCAAAATACGGCCAGGAAGGGCAA
	3937	TGCCATGCAGTCAGGTACGATGGT
<b>?</b> 0	3938	ACAGGTTACGTCGTGTTCCCGT
	3939	CTCATGACGAACGAGCGGTCTGCA
	3940	GTCGTGCGAGAGGCCAAGACCTTA
	3941	GCTGGCTGACGCTGTTGTCAGAGG
	3942	GCTACAGTGCTGCGTCCCGTGCCT
25	3943	TTTACGAGCACCAAGCTGGCGTAG
	3944	ACGAGTTGACGGTCGTAGGGACCG
	3945	TCGGATGGTAGGAGGCGAGATCGG
	3946	ATTATGCAGATCCTGTGCATCCGC
	3947	AGGGATGGAGCAAGGAAGCATT
30	3948	ACCCCAGGACCCGTATTCCCTAGC
	3949	GCACCATCCTGGGGCTTCTCAATG
•	3950	TACAATCCGTGGACGTTTGCTCAG
	3951	GGTAGGCGAATCCGACTGGCATAG
	3952	AGGACCGAACCCATGTGCAGCATC
35	3953	ATACACCGCACAGAAGCACAGCTG
	3954	TCCTTGGCGGCCGTGTGTTTATTG
	3955	CTCCACGCGAAGGGCGCTTGTAAC
	3956	TGGCCCTGCCATCCTCGGATTCAG
	3957	TGTCTATTCGCCAGCGTGAGCATC
40	3958	TGTTGTTGGCACGCCTCTACGGCA
	3959	GTGCCTCAACCGTATCGTGGCGGT
	3960	TCCTCGAAGTAGCGTGACCGAACC

		3961	AAACAATTTCCTGCACTCTCGGCC
		3962	CACAAACTCGTCGAGGCACACAGT
		3963	GACGAAACGCTCGGCAGAAAGCCT
		3964	TCAACTCACACGGGACAGCAGTTC
5		3965	TCACGTGGATGGGCTTAGCTGGGC
		3966	AGGTGTTTGTTCCGACTGGCCACA
		3967	TCAACCCTCTATTCCCGAGCATTG
		3968	ACCTCACACAGCGTTCTCGTCGA
		3969	AACAGCATGCGGTCGCTGGCTTTC
0		3970	CACGGACACGTGTTACATCCGATG
		3971	CTGGGAGCCTGCTGATACATGGTG
		3972	CGTCCTATGGGCCATGGCCAGGAT
		3973	GTCCCCAAATCTCGCTTTACAGGC
		3974	TCACAAACCTGTGCGTGCATTGTC
5		3975	CACACTCGTGGCCTGCGTTGGGAA
		3976	GCCTGCACTTACGGCTATCTCGCC
		3977	TTGGCGTGGCGATTACCTGTTATT
		3978	TTTGCGGCTGAAGTTTACAGGGTG
		3979	CACTTAAGGGGCTGACCGAGCAAC
<b>:</b> O		3980	AGAAAACGTCAATCCGCCACCTTT
		3981	AACAAAACGGCGCTCCAACAAACG
		3982	GCCTCAATATCTGGTTGCCGCCTG
		3983	TTCCACAGTCAATGATGGGCGTGC
		3984	GATTCCCAGTCTACCCGCGAGCAT
<u>?</u> 5	!	3985	AGGCCAATTACGACCCTGTCACGG
		3986	CATGCGAACGTTCCGAGGAGACGG
		3987	CACACGCGATGGGTTGTGACGC
		3988	TCCGGTATTGCGCAGGAACCATAG
	,	3989	AAGATTAGGTGTGCCCGCCTCAGG
30		3990	TCGTTACGCCCCGACTCGACGATG
•		3991	ACTAAAATCGCCAGGTTGCTCCCT
		3992	AGGATGGCCACGCCGAATCAAAGT
		3993	TGATGAAGCAGCTCATCGCTGGCG
		3994	CCCCGATGGGTCTTTGTTGGACTC
35		3995	ACACGAGGGCTGCTGGTGAGGGCT
		3996	TGGTCACCAATTTGATGATCCGAG
		3997	AAGGCCGCTTGCATGCGACAAATT
	•	3998	CCAGTGTTCGTTCATCGGTGGCGT
		3999	CCGACCGCTACATAGGTGTGCGAA
40		4000	TGTTGAAGCCGTTCCCAGATGACA

-138-

## TABLE 2

	Seq. ID No.	Decoder Sequence (5'-3")	Probe Sequence (5'-3')
	1	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
	2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
5	3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACGCGTT
	4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
	5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCCAGCACGGCCAT
	6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCCGTTGCAA
	7	CGCATAGGTTGCCGATTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
10	8	CCGTTTGCGGTCGTCCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
	9	TTCGCTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
	10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
	11	TTGCCGCACCGTCCGTCATCTCAA	TTGAGATGACGGACGGTGCGGCAA
	12	CATCGTCCCTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
15	13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
	14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
	15	CGTGTAGGGGTCCCGTGCTGTCAA	TTGACAGCACGGGACCCCTACACG
	16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGCAGCGATG
	17	GGCTGGTTCGGCCCGAAAGCTTAG	CTAAGCTTTCGGGCCGAACCAGCC
20	18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
	19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
	20	ACTAGCATATTTCAGGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
	21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
	22	GCGGCCTTGGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
25	23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
	24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
	25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCTGGGTAGTTTAT
	26	CATCGGTTCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
	27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCGAC
30	28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
	29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
	3,0	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
	31	AĢCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
	32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCCTCAAAACAACC
<b>3</b> 5	33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCGA
	34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
	35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTC
	36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTCATGACA
	37	ATATCGGGATTCGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT

5

10

15

:0

**!**5

**;**0

**i**5

.0

[	38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
[	39	TTACCGGCAGCGGACTTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
	40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
	41	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
	42	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
[	43	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGCATGTACC
[	44	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
[	45	GCCAAATCTGGATTGGCAGGAATG	CATTCCTGCCAATCCAGATTTGGC
	46	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
	47	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
	48	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
	49	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCGAATT
	50	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
	51	CCAACAACTGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
	52	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCTCAGCGATCAGTTCTC
	53	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
	54	TCACATCCAAATATGGTCCGCGAA	TTCGCGGACCATATTTGGATGTGA
	· <b>5</b> 5	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTCACACCGGCAGAC
L	56	CATCGCAGAGCATAAACACCCTCA	TGAGGGTGTTTATGCTCTGCGATG
L	57	GTTGGTATCTATGGCAGAGGCGGA	TCCGCCTCTGCCATAGATACCAAC
	58	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
	59	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
1	60	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
1	61	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
	62	CACCGCGGTGTTCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
L	63	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
1	64	TTAACCTGCGTCTGCCCCTTTCCT	AGGAAAGGGCAGACGCAGGTTAA
	65	AGGCGCGTTCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
1	66	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
	67	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
1	68	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
-	69	TCCGCATTGTGAGAAAAAACGAGC	GCTCGTTTTTTCTCACAATGCGGA
L	70	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
1	71	GGTGAAAATTTCGTAGCCACGGGC	GCCCGTGGCTACGAAATTTTCACC
	72	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
	73	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
Ļ	74	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
	75	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
-	76	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
	77	CAGGGCATGCAATAATCGAGGTTC	GAACCTCGATTATTGCATGCCCTG
L	78	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG

	79	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
	80	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
	81	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
	82	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
5	83	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTCAGTGCAAAT
	84	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACTTAACCGTTCTCCCTG
	85	AGGCCGCCGATCGAGGAGTTTGGT	ACCAAACTCCTCGATCGCCGGCCT
	86	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
	87	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
10	88	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
	89	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTCA
	90	GCATCGTGTACATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
	91	CAGTGTTCTAACGGCGCGCGTGAA	TTCACGCGCGCCGTTAGAACACTG
	92	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
15	93	CGAAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTCG
	94	CTTTCAGGGGAACTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG
	95	TTGTGGCCTTCTTGTAAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
	96	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTCGTGGA
•*	97	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
20	98	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
	99	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTCGCACGAAAGCG
	100	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
	101	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
	102	CGGAGGAGGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCCG
25	103	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCGGATGC
	104	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
	105	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
	106	AACACTTGATCAGGCGGGTCGTCT	AGACGACCCGCCTGATCAAGTGTT
	107	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
30	108	GCTCCCGTAACCTGTCCACCAGTG	CACTGGTGGACAGGTTACGGGAGC
	109	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACCACT
	110	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
	111	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
	112	AAGGTGGTGCCATTCATTTGGCTA	TAGCCAAATGAATGGCACCACCTT
35	113	CGTTAAACCGCAATCCGTTCGGCT	AGCCGAACGGATTGCGGTTTAACG
	114	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
	115	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
	116	GTAGGGCGATGACGGCGAACTAC	GTAGTTCGCCCGTCATCGCCCTAC
	117	AATCGACCTCCGCACACATTCGCA	TGCGAATGTGTGCGGAGGTCGATT
40	118	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
	119	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT

120   GGTACCTCAAGGCGAACCACTTET   ACAAGTGGTTCGGGTTGAGGTACC     121   AAGCGATGGCTACCCAAGAGCGAT   ATGGCTCTTGGGTAGCCATCGGTT     122   AAGCGTATGCAGAACCAGGGGCG   GGCGCCTGGTTCTGCATAAGCTCT     123   ATCGGTCTCACGCAGAGGACAC   GGCGCCTGGTTCTGCATAAGCCTT     124   TAGGTTGCCACGCAGAAGAACACT   ATGTTTCTTCTGAGGGGCAACCTA     125   CGGTGCTGTTGCAAAAGCCTGTAG   CTACAGGCTTTTGCACAAGGCACCC     126   TGATGAAAAGCTTTGCAGCAGACAC   GTGTCCTGCCGCAAACTTTCATCA     127   GTTGAGTGCAGAAGCCCTGTAG   CTACAGGCTTTTGCACCACACCACCACC     128   AACATTGCGCGGGTCCACCAGGGTT   ACCCTGGTGGACCGGCAACTTTCATCA     129   GGGCAGTTAGAGAGGGCCAGACC   TGTTCTGCCCCCAACCTTCACC     128   AACATTGCGCGGTCCACCAGGGTT   ACCCTTGGTGACCGGCCAATGTT     129   GGGCAGTTAGAGAGGGCCAGACT   ACTTCTGGCCCTCTCAACTCCC     130   TCGAGCTGGTCCCCCTGAACGGTT   ACACGTTCACGGGGACCAGCTCGA     131   GTCTTGGGGGCCCCTTAATGCA   TTTTCACTAGGGGACCAGCTCGA     132   ACTGTTGGCAGGGGCAAGAT   ACACGTTCACGGGGACCAGACT     133   AGGACCATTCGGAAGGCGAAGAT   TATCTTCGCATTCCGAAGCCAACACGC     134   CTTGGGAAGGCGAAGATA   TATCTTCGCCTTCCGAATGGTCCT     135   AATAAACGGAACACCACGCTACAAC   TGCACATAGAGACCAACCACACT     136   ATTAAACCGAACCCACCCTATAAGCA   TCCTTATAGCGAATGGCTCCCCATAAGCA     137   CGCACCAAACTGAGTTTCCCCATAAGCA   TCCTTATAGCGGACCCCCACTTCATT     138   ACCTGATCGTTCCCCTATAGCA   TCCTTATAGGGACCCCCCTCCATTATT     138   ACCTGATCGTTCCCCTATAGCA   TCCTTATAGGGACCCCCCTCTCTTTATT     139   GGAACAGAGGGGAGGGGACTGAGC   GCTCAGTCCCCTCGCCTTCTTTTT     140   CCCTGCCTTGGCGTTTCCCCTATTGGAAC   TTCCCAATAGGGAACCACGCCAAGGCAGGC     141   ACTCTGACACCCCAACTCCGGAAC   TTCCCAATAGGGGAACCACGCCAAGCCAGGC     142   CTGACGGTTTCATTGGAGCTGCC   GGCCAGCCCCAATGAACCACCCCAACGCACACCACCACCACCACCACCACCAC				
122 AGAGCTTATGCAGAACCAGGCGCC GGCGCTGGTTCTGCATAAGCTCT 123 ATCGGTCTCAGGCAGGGTTGGATA 124 TAGGTTGCCGCCAGAAGAAACAT TATCCAACCCTGCCGTGAGACCGAT 125 CGGTGGTTGCAAAAGCATACATAGTTTCTTGGCGGGCAACCCTG 126 TGATGAAAGTTTGCGGCAGGACACAC GTGTCCTGCACCACCCGC 127 GTTGAGTGCAGAAGCCGATAG CTATCAGGCTTTTCATCAACAGCCTG 128 AACATTGCGCGGTCCACCAGAGGTAA ACTCTTGGCCGCAAACCTTCAAC 129 GGGCAGTTAGAGAGGGCCAGAAGT ACCTGTCGACCTCAAC 128 AACATTGAGGGGGTCACCACGGGTT ACCCTGCATCCTCCACTCAAC 129 GGGCAGTTAGAGAGGGCCAGAAGT ACTCTGGCCCTCTCTAACTGCCC 130 TCGAGCTGGTCCCCCTGAACCTGT ACCCTGCTCTAACTGCCC 131 GTCTTGGGGGCCCCTTAATGGAAAA TTTTCACTAACGCGCCCCCAAGAC 132 ACTGTTGGCTTGCTCTATGTCAA 131 GTCTTGGGGGACCACCAGT 133 AGGACCATTCGGAAGAGTA TATCTTCACTAACGCGCCCCCAAGAC 132 ACTGTTGGCTTGCTCTATGTCAA 133 AGGACCATTCGGAAGAGTA TATCTTCGCCTTCCAATGGTCCC 134 CTTGGGAGCCACCCCCTAAAGCA TCCTTATAGCGGACACCACCTCAAG 135 AATAAACGGAACCACCGCTTAAAGCA TCCTTATAGCGGATGCCTCCAAG 136 TTGTACCTGCGGTTCCCCTATAAGCA TCCTTATAGCGGATGCCTCCCAAG 137 CCGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGTT 138 ACCTGATCGTTCCCCTATTAGGAA TTCCCCAATAGGTGCCC 138 ACCTGATCGTTCCCCTATTGGAAA TTCCCCAATAGGACGACCGACCGTACAA 137 CCGCACCAAACTGAGTTTCCCCAGAC GTCTGGGAAACTCAGTTTGTGCC 138 ACCTGATCGTTCCCCTATTGGAAA TTCCCCAATAGGGGAACCAACCACTCAA 137 CCGCACCAAACTGAGTTTCCCCAGAC GTCTGGGAAACTCAGTTTCCC 140 CCCTGCCTTGGCGTTCCCCTATTTGGAAA TTCCCCAATAGGGGAACCAACCACTCAACCACTCAACCACCCCAACGCCAAGGCCAAGGCAAGGCAACGACACACCAC		120	GGTACCTCAACGCGAACCACTTGT	ACAAGTGGTTCGCGTTGAGGTACC
123 ATCGGTCTCACGCAGGGTTGGATA 124 TAGGTTGCCCGCCAGAAGAAACAT 125 CGGTGCTGTTGCAAAAGCCTGTAG 126 TGATGAAAGTTGCGCAGAGAAAACAT 127 GTTGAGTGCAGAAGCCTGAAGAAACAT 128 TGATGAAAGTTGCGGCAGGACAC 129 GTGCAGCAGAAGAACAC 129 GGGCAGTTAGAAGCCTGAAC 129 GGGCAGTTAGAAGCCGATAA 130 TCGAGCTTGCCCCACAGGGTT 131 GTCTTGGGGGCGCCACAGGGT 131 GTCTTGGGGCGCCCACAGGGT 132 ACTGTTGGCTCCCCGTGAACGTGA 133 AGGACCATTCGGAAAGCCTTACCAC 134 GTCTTGGGGCCGCTTAACTGCC 135 ACTGTTGGCTCCCCTGAACGTGT 136 ACTGTTGGCTCCCCAGAGGT 137 CTGAGCTGTCCCCGTGAACGTGT 138 AGGACCATTCGGAAGGCAAGAT 139 AGGACCATTCGGAAGACT 130 TCGAGCTGTTCCCCTTCATGTCCA 131 GTCTTGGGGGCCGCTTAACTGCAC 132 ACTGTTGGCTTCCTCATGTCCA 133 AGGACCATTCGGAAGACTAACGTGAAAA 134 CTTGGGAGGCAGCCTACAAG 135 AATAAACGGAAGCCCCCAAGAC 136 TTGTACCTGGAAGACGCACGCTACAAG 137 CGCACCAAACTGAGTTTCCCAAG 138 ACTGTTGTCCCCTATAGGA 139 GGAACAACGGGGACCGCTACAG 139 GGAACAAACTGAGTTTCCCAAG 139 GGAACAAACGGAAGCCAACGCCAAGCCAACGCCAAGACT 140 CCCTGCCTTGTGCGATTGGAAA 141 ACTCTGACAGCGAAGCACGCCAAGCCCAAGACAGCCAAGGCCAAGGT 142 CTGACGGTTCCCTATTGGGAA 143 TGCGGTTTCCCTATTGGGAA 144 ACTCTGACACGCCAACTCCGGAAG 145 TGCGGTTTCCTTCATGCGCTTCCCTCTCTCCCCTCTGGTCC 146 CCCTGCCTTGGCGTTCCGGAAG 147 TGCGGTTTCATTGGGCGTGCC 148 GCACGACACACACAACAAGCCAAGCCAAGCCAAGCCAA		121	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCCATCGCTT
124 TAGGTTGCCCGCCAGAAGAACAT 125 CGGTGCTGTTGCAAAAGCCTGTAG 126 TGATGAAAGTTTGCGGCAGGACC 126 TGATGAAAGTTTGCGGCAGGACC 127 GTTGAGTGCAGGATGCAGCACCAGGTTTCCTCACCCGCAAACTTTCATCA 127 GTTGAGTGCAGGATGCAGCGATAG 128 AACATTGCGCGGGTTCACCAGGGTT 142 GGGCAGTTAGAGAGGCCAGAGT 129 GGGCAGTTAGAGAGGCCAGAGT 130 TCGAGCTGGTCCCCGTGAACGTT 131 GTCTTGGGGGCCGCTTAGTGAAAA 131 GTCTTGGGGGCCGCTTAGTGAAAA 132 ACTGTTGGGTTCCATGTCCA 133 AGGACCATTGCTACAGAAA 134 CTTGGGAGGCGCTTAATGGAAAA 135 AATAAACGGAGCCACAGAGT 136 TTGTACCTGCGCCTATAAGGA 137 CGCACCAAACTCCGCTAAAGCA 138 TTGTACCTGCGGTCCCCATAAGGA 139 GGAACAGAGCACCACCAGAC 139 GGAACAGAGGCGAACATA 130 TCGAGCTGCCCCTATAAGGA 131 CTTGAGAGGCGAACATA 132 ACTGTTGGAAGGCGAACATA 133 AGGACCATTGCGAAGGCGAACATA 134 CTTGGGAGGCCACCGCTACAG 135 AATAAACGGAACCACCGCTACAG 136 TTGTACCTGCGGTCCCCATAAGGA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGGTAGGCGAACGACTACAG 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGGTTCCCCTATAGGA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGGTTCCCCTATAGGA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGGTTCCCCTATTGGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGGTTCCCCTATTGGGAA 139 GGAACAGAGGCGAGGGGACTGAGC 140 CCCTGCCTTGGGGTTCCGCTATTA 141 ACTCTGACAGGCCAACTCCGGAAG 142 CTGACGGTTTCATTGGGAA 143 TGCGGTGGCTTCATAGGA 144 GCATGGCCAACTCCGGAAC 145 AGGCCGAATGAACCACCGCAA 146 CCAATATTATGCCGAGAAC 147 ACCAGCAGCAACTCCGCAA 148 GCATGGCTAAAGACCACCGCAA 149 AAAGCCTTATGGCGTGCC 146 CGAATATTATGCCGAGAATCCACCGC 147 ACCACAGCACACTCAACACACACACACACCACACCACAC		122	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
125 CGGTGCTGTTGCAAAAGCCTGTAG 126 TGATGAAAGTTTGCGGCAGGACAC 127 GTTGAGTGCAGGATGACCGGTGTCTCCGCCGCAAACTTTCATCA 127 GTTGAGTGCAGGATGCAGCGATAG CTATCGCTGCATCCTAAC 128 AACATTGCGCGGTCCACCAGGGTT AACCCTGGTGGACCGCGCAATGTT 129 GGGCAGTTAGAGAGGGCCAGAAGT 130 TCGAGCTGGTCCCCGTGAACGTT ACCCTTCTAACTGCCC 130 TCGAGCTGGTCCCCGTGAACGTT ACACGTTCACGGGGACCAGCAGCTCGA 131 GTCTTGGGGGCCGCTTAGTGAAAA 132 ACTGTTGGCTTCCATGTCA 133 AGGACCATTCGGAAGGGCCAGAAGT 134 CTTGGGAGGCGAGAGATA 135 AATAAACGGAAGCCAACAGT 136 TTGTACGTGCGCTATAAAGA 137 CGCACCAAACTGGAAGAGATA 137 CGCACCAAACTGAGTTTCCCAAGC 138 ACTGATCGGAAGGCACGCTCCAA 139 GGAACAATCCCCTATAAGGA 137 CGCACCAAACTGAGTTTCCCAAGC 138 ACTGATCGTCCCTATTAGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 138 GCAACACAGGCGAGGGGACTGAC 140 CCCTGCCTTGGCGTTCCCTATTGGAAA 141 ACTCTGACAGGCGAGGGGAACTAA 142 CTGACGGTGCCCTATAAGCA 144 CCCTGCCTTGGCGTTCCCTATTGGGAA 145 AGGCCGTACAGC 146 CCACCAACTTGGGAAG 147 CTCCAATAGGGAACCGCACGCTCCATGACC 148 GCACCAACTGCGGAAG 149 CCCTGCCTTGGCGTTCCCTATTGGAAC 140 CCCTGCCTTGGCGTTCGCCTTCCGCCTCGCCTCTGCCTCTGCTCTCGCCTCTAGCC 144 GCATGGCCAACTTCCGGAAG 145 AGGCCGTAAAGCAACCGCCAA 146 CGAATATTATTCCTCCAAC 147 ACAGCGACCACTCCCGAAC 148 GCATGGCCAACTACTGCAC 149 AAGGCCTAACTGGACTTCCCCAATGAACCACCCCAA 140 CCATGCCTTTCGGAATCTCCCCAACTGCCCCCCCCCCAACCCCCAACCCCCAACCCCCAACCCCCAACCCC		123	ATCGGTCTCACGCAGGGTTGGATA	TATCCAACCCTGCGTGAGACCGAT
126 TGATGAAAGTITTGCGGCAGGACAC 127 GTTGAGTGCAGGATGCAGCGATAG 128 AACATTGCGCGGTCCACCAGGGTT 129 GGGCAGTTAGAGAGGGCCAGAGT 129 GGGCAGTTAGAGAGGGCCAGAGT 130 TCGAGCTGGTCCCGTGAACGTT 131 CTGTGGGGGCCCGCAGAGT 132 ACTGTTGGCCGGTCACCAGGGTT 133 AGGACCATTCGCCC 133 ACTGTTGGGCCGCTTAGTGAAAA 134 GTCTTGGGCGGCCCCATAGAGT 135 ACTGTTGGCTTCCATGTCCA 136 ACTGTTGGCTTCCATGTCCA 137 ACTGTTGGCTTCCATGTCCA 138 AGGACCATTCGGAAGGCGAAGATA 137 CTTTGGGAGGCCGCAACAGT 138 ATAAACGGAACGCCCCATAAAGGA 139 CTTTGGGAGGCCGCCCAAAGAC 130 TTGTACGTGCGCTATAAAGGA 131 CTTTGGGAAGGCCACACAGT 132 ACTGTTGGCAGGCCCCCATAAAGGA 133 AGGACCATTCGGAAGGCGAAGATA 134 CTTTGGAAGGCACCGCTACAG 135 AATAAACGGAACGCACCGCTACAG 136 TTGTACGTGCGGTTCCCCATAAAGGA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGTTCCCCTATTGGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGTTCCCCTATTGGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGTTCCCCTATTGGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGTTCCCCTATTGGGAA 137 CGCACCAAACTGAGTTTCCCAGAC 139 GGAACAGAGGGGAGGGGACTGAGC 140 CCCTGCCTTTGGCGTTTCC 140 CCCTGCCTTGGCGTTAT 141 ACTCTGACACGCCAACTCCGGAAG 142 CTGACGGTTTTCATTCGGCGTGCC 143 TGCGGTGTTTATTTTGGCCTTGCC 144 GCATGGCCAACTCCGGAAG 145 AGGCCGTAAAGACGACCACACTCCGAAG 146 CAATGCCCAACTCCACACT 147 ACAGACGACGAATCTCACCTG 148 GCATGGCCAACTCCACACTGC 149 AAAGCGCTAAGAGAATCCACCTG 148 GGACGGTTTTGTTTGGGCGTGCC 149 AAAGCGCAACTCCAACCACCTGC 149 AAAGCGCAACTCCAACCACCTGC 149 AAAGCGCTATTGAGTTGGTTGGGCC 149 AAAGCGCTATTGAGTTGGTTGGGCC 149 AAAGCGCTATTGAGTTGGTTGGGCC 149 AAAGCGAATCTCACCTG 149 AAAGCGCTATTGAGTTGGTTGGGCC 149 AAAGCGCTATTGAGTTGGTTGGGCC 150 ATCACTGGAGAAGCAAACCCTCCTG 151 GATCCAGTAGGAGCACACACACTGA 152 AATAACTCGCGGGGGTATGCTTTC 153 GAGGAGAGTTTTTCGGAGATTCCCTA 155 AATAACTCGCGGGGTATGCTTCATCCA 156 AATCACTCCGCAGCAAGAACACCACACACACACACACACA	5	124	TAGGTTGCCCGCCAGAAGAAACAT	ATGTTTCTTCTGGCGGGCAACCTA
127 GTTGAGTGCAGGATGCAGCGATAG 128 AACATTGCGCGGTCCACCAGGGTT AACCCTGGTGGACCGCCACTGATG 129 GGGCAGTTAGAGAGGGGCCAGAAGT ACTCTGGCCCTCTAACTGCCC 130 TCGAGCTGGTCCCCGTGAACAGT ACTCTGGCCCTCTAACTGCCC 130 TCGAGCTGGTCCCCGTGAACAGT ACACGTTCACGGGCACCAGCTCGA 131 GTCTTGGGGGCCGCTTAGTGCAAA TTTTCACTAAGCGGCCCCCAAGAC 132 ACTGTTGGGAGGCCGAGAGAT ATCCTTCAGAGAGCAACACACT 133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGTCCT 134 CTTGGGAGGCAGCACAGAT TATCTTCGCCTTCCGAATGGTCCT 135 AATAAACGGAACGCACCGCTAAAG CTGTAGCGGTGCCTCCCAAGA 135 AATAAACGGAACGCACCGCTACAG CTGTAGCGGTGCGTCCCTTATT 136 TTGTACGTGCGGTCCCCATAAGCA TGCTTATAGCGGATGCCTCCCAAG 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGAACCGCCACGTACAA 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAGCCGACCGCCAAGGCACGCCAAGGTACAA 141 ACTCTGACACGCCCACATCAGC GTCTGGGAAACTCAGGTTTCC 142 CTGACGGTTCAGTTCGGAAG TTCCCCAATGAGCACGCCAAGGCGAGG 143 TGCGGTGGTTCAGTCTCGGAAG CTTCCGGAGTTGCGCTTCAGAGT 144 CTCTGACACGCCCAACTCCGGAAG CTTCCGGAGTTGGCCTTCAGAGT 145 AGGCCGTAAAGCAGCCCAACTCCGCAA TTGCGAGTTCGCCTTCAGCAGT 146 CAATGCCAACTAGTGACTCGCAA TTGCGAGTCCCCTTGGCCTTCC 147 ACAGACCACACTAGTGACTCGCAA TTGCGAGTTCCGCTTTACAGCCCTAC 148 GCATGCCAACTAGTGACTCGCAA TTGCGAGTACCACCCCACACCCCACACCCCACACCCCACACCCCACAC		125	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
128 AACATTGCGCGGTCCACCAGGGTT AACCCTGGTGGACCGCGCAATGTT 10 129 GGGCAGTTAGAGAGGGCCAGAAGT ACTTCTGGCCCTCTCTAACTGCCC 130 TCGAGCTGGTCCCCGTGAACGTGT ACACGTTCACGGGGACCAGCTCGA 131 GTCTTGGGGGCCGCTTAGTGAAAA TTTTCACTAAGCGGCCCCCAACAGC 132 ACTGTTGGCTTGCTCCATGTCCA TGGACATGAGAGCAAGCCAACAGT 133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCATTCGGAATGGTCCT 134 CTTGGGAGGCATCCGCTATAAGGA TCCTTATAGCGGATGCCTCCAAG 135 AATAAACGGAACCACCGCTACAG TCCTTATAGCGGATGCCTCCCAAG 136 TTGTACGTGCGGTCCCCATAAGCA TCCTTATAGCGGATGCCTCCCAAG 137 CGCACCAAACTGAGTTTCCCAGAC GTCTTGGGAAACCTCAGTTTGTTCG 138 ACCTGATCGTTCCCCTATTGGGA TCCCAATAGGGAACCACCGCCACAGTACAA 137 CGCACCAAACTGAGTTTCCCCAGAC GTCTGGGAAACCTCAGTTTGGTGCG 138 ACCTGATCGTTTCCCTATTGGGA TCCCAATAGGGGAACCGACCGACGTACAA 140 CCCTGCCTTGGCGTGCCGCTAAGCA GTCTCGGCATCAGGTACAGTACA		126	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACTTTCATCA
10 129 GGGCAGTTAGAGAGGGCCAGAAGT ACTTCTGGCCTCTAACTGCCC 130 TCGAGCTGGTCCCCGTGAACGTGT ACACGTTCACGGGGACCAGCTCGA 131 GTCTTGGGGGCCGCTTAGTGAAAA TTTTCACTAAGCGGCCCCCAAGAC 132 ACTGTTGGCTTGCTCATGTCCA TGGACATGAGAGCAAGCCAACAGCT 133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGCCT 134 CTTGGGAGGCGAAGATA TATCTTCGCTTCCCAAGGC 135 AATAAAACGGAACGCACAGCTATAAGGA TCCTTATAGCGGTGCCTCCCAAG 136 TTGTACGTGCGGTCCCCATAAGGA TCCTTATAGGGATGCCTCCCCAAG 137 CGCACCAAACTGAGTTTCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TCCCCATAGGGAACGAACAGTTACAA 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGGTTGCCCTTGGTCCC 140 CCCTGCCTTGGCGTTCCGCTATAGGAA TCCCCAATAGGGAACGCACGCCACGTACAA 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGACTGCCCTCGCCTTGTTCC 142 CTGACGGTTTCATTCGGCGTGCC GGCACGCCAAAGCCAAGCC		127	GTTGAGTGCAGGATAG	CTATCGCTGCATCCTGCACTCAAC
130 TCGAGCTGGTCCCGTGAACGTGT ACACGTTCACGGGGACCAGCTCGA  131 GTCTTGGGGGCCGCTTAGTGAAAA TTTTCACTAAGCGGCCCCCAAGAC  132 ACTGTTGGCTTGCTCCATGTCCA TGGACATGAGAGCAACAGGT  133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGTCCT  134 CTTGGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGTCCT  135 AATAAACGGAACGCACCGCTATAAGGA TCCTTATAGCGATGCCTCCCAAG  136 TTGTACGTGCGGTCCCCATAAAGCA TGCTTATGGGACCGCACGTTATT  137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTATT  138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGAACCGCACGTACAA  137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG  138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGACCAGTCAGGT  140 CCCTGCCTTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCCAAGGCAGGT  141 ACTCTGACAGCCAACTCCGGATA CTTCCGGAATGCACAGCCCAGGCAGGAGGAACTAAACCACCAGCAACTCCCGGAAT  142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCCAATGAAAACCGTCAG  143 TGCGGTGGTTCATTGGAGCTGGCC GGCACGCCCAATGAAAACCGTCAG  144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGATTCGCTTTACGGCCT  145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCCTTTACGGCCT  146 CGAATATTATGCCGAGAATCCGCA CTCCGGAATGAAAACCACCAGCA  147 ACAGACGAGCTCCCAACCACACAA  148 GGACGGTTTTGCTGGATTGTTC  149 AAAGGCTATTGGAGTTGGTTGGTT  148 GGACGATTTTGCTGGATTGTTCT  149 AAAGGCTATTGGAGTTGCTTC  141 ACAGACGAGCTCCCAACCACACAA  142 CGGCCGCAACCAACCACTCA  143 CGGCGTAAGGCAACTCCCCC CGCGGATTCTGGGCCTTCTGT  144 GCATGCCTATTCGAGATTCGCCC CGCCGAATCACAACCCTCC  145 AGGACGATTTTGCTGGATTGCTTC  146 CGAATATTATGCCGAGAATCCGCC CGCCGAATCCAACCCTCCTCTTT  147 ACAGACGAGCTCCCAACCACACAACA  148 GGACGGTTTTGCTTGGATTGCTTC  148 GGACGATTTTGCTGGATTGCTTC  150 GATGGCCTATTCGGAGATCGGCC CGCCCAACCAACTCAATAGCCTTT  151 GATCCAGTAGGCACACTCCCCA TGCTCGCAACCAACTCCAACACCTCCTCTCTCCAACCAAC		128	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
131 GTCTTGGGGGCCGCTTAGTGAAAA TTTTCACTAAGCGGCCCCCAAGAC 132 ACTGTTGGCTTGCTCTCATGTCA TGGACATGAGAGCAAGCCAACAGT 133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGTCCT 134 CTTGGGAGGCATCCGCTATAAGGA TCCTTTATAGCGATGCCTCCCAAG 135 AATAAACGGAACGCACCGCTACAG CTGTAGCGGTGCGTTCCGTTTATT 136 TTGTACGTGCGGTCCCCATAAGCA TGCTTATGGGGACCGCACGTACAA 137 CGCACCAAACTGAGTTTCCCAGAC TGCTTATGGGGAACCTACAAA 138 ACCTGATCCTTCCCCTATAGGA TTCCTCAGATTGGTGCG 139 GGAACAGAGGCGAGGGGACTGAGC GTCTGGGAAACTCAGGTTGGTGC 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCCAAGGCAGGC 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGATTGGCGTGCC 142 CTGACGGTTTTCATTCGGCGTGC GGCACGCCCAATGAACCACCGCA 143 TGCGGTGTTCATTCGGCGTGC GGCACGCCCAATGAACCACCGCA 144 GCATGGCCAACTAGGACTGGCC GGCACGCCCAATGAACCACCGCA 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCACTTG 146 CGAATATTATGCGAGAATCCCGC GCGCAGTCCCAATGACCACCCCT 147 ACACACGAGCTCCCAACCACTTCACCTG CAGGTGAGATTCGGCTTTGT 148 GGACGGTTTGTGTGGATTGCTC CAGACAATCCACCGCA 149 AAAGCCTAATGAGTTGGTTGGCC TCAGTGGAGATTCGGCTTGTT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCACCACACACACACCTCCT 150 GATGGCCTATTCGGAGATTCGCC TCAGACACACCACAC	10	129	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
132 ACTGTTGGCTTGCTCTCATGTCCA 133 AGGACCATTCGGAAGGCGAAGATA 134 CTTGGGAGGCGAAGATA 135 TATCTTCGCCTTCCGAATGGTCCT 135 AATAAACGGAACGCACCGCTACAG 136 TTGTACGTGCGGTCCCCATAAGCA 137 CGCACCAAACTGAGTTTCCCAAC 138 ACTGATCGTTCCCTATTGGGAA 139 GGAACAGAGGCGACGGAACTGCTTTTTT 138 ACCTGATCGTTCCCCATAAGCA 137 CGCACCAAACTGAGTTTCCCAGAC 138 ACCTGATCGTTCCCCTATTGGGAA 139 GGAACAGAGGCGAGGGGACTGAGC 140 CCCTGCCTTTGGCGTTCCCTATTAGCA 141 ACTCTGACAGCGCGGGAACTGAGC 142 CTGACGGTTTCATTCGGAAGC 143 TGCGGTGTTCATTCTTTTTATTATCGGAATTGGCGAACACCGCCAAGGCAGGC		130	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTCACGGGGACCAGCTCGA
133 AGGACCATTCGGAAGGCGAAGATA TATCTTCGCCTTCCGAATGGTCCT 134 CTTGGGAGGCATCCGCTATAAGGA TCCTTATAGCGATGCCTCCCAAG 135 AATAAACGGAACGCACCGCTACAG CTGTAGCGGTGCGTTCCGTTTATT 136 TTGTACGTGCGGTCCCCATAAGCA TGCTTATGGGGACCGCACGTACAA 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT 140 CCCTGCCTTGGCGGTCCCCTTATT ATAAGCCGACCGCCACGCAAGGCAGGT 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGACACCCCAAGGCAGGC 142 CTGACGGTTTTCATTCGGCGTTGCC GCCCCAAGGCAGGCAGT 143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCCCCAAGCCAGC 144 GCATGGCCAACTCCGGAAG CTTCCGGAGTTGCGCTTACGCCT 145 AGGCCGTAAAGCGACTCCGCAA TTGCGAGTTCCCCTTAGCGCCT 146 CGAATATTATGCCGAGAATCCACTG CAGGTGAGATTCGCCTTTACGGCCT 147 ACAGACGAGCTCCCAACCACTGA TCATGTGGAGTTCACTGC 148 GGACGGTTTGTGTGGCTTGCC CAGGTGAGAATCCACCGCA 149 AAAGGCTATTGGAGTTGCTG CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGGAGTTGGTCG CGCCCGAATCCAAAACCGTCC 150 GATGGCCTATTCGGAGATCCGCC GGCCCAACCACAAACCGTCC 151 GATCCAGTATGCAGTGGCC GGCCCGATCTCCAATAGCCTTT 152 AATAACTCGCGGGTTTGTCTG CAGACAATCCAGCACAAACCGTCC 153 GAGGAGAGTTTGTCTGCTGAAAGCAACCCCCCAACCAAACCGTCC 151 GATCCAGTAGGCAGATCCCCA TGGGATCACCGACAAACCGTCC 151 GATCCAGTAGGCAGTTCATCCCA TGGGATCACCCGCCGAATCAGCATCT 152 AATAACTCGCGGGGTATGCTTCT AGAAGCATACCCGCCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAACAAACCTCCTCC 154 CTTTGGTTAGGCACAATGCTGCCCC CGGGCAGCATGCCCAACCCAA		131	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
134 CTTGGGAGGCATCCGCTATAAGGA TCCTTATAGCGATGCCTCCCAAG 135 AATAAACGGAACGCACCGCTACAG CTGTAGCGGTGCGTTCCGTTTATT 136 TTGTACGTGCGGTCCCCATAAGCA TGCTTATGGGGACCGCACGTACAA 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT 140 CCCTGCCTTGCGGTGTCGGCTTAT ATAAGCCGACCGCCAAGGCAGGG 141 ACTCTGACACCCCAACTCCGGAAG CTTCCGGACACGCCAAGGCAGGG 142 CTGACCGCTTTCCTTTTGGCAG CTTCCGGAAGCTGAGGT 143 TGCGGTGTTCATTGGGAAG CTTCCGGAAGTTGCCGTTCAGAGT 144 GCATGGCCAACTCCGGAAG CTTCCGGAATGAAACCACCCAA 137 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAAACCACCACA 148 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTTCACTAGTTGGCCATG 149 AAGGCCGTAAAGCGAATCCACCG CAGGCAGAGATTCACCTG 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAAACCGTCCA 149 AAAGGCTATTGAGTTGGGCG CGCCCAACCACACAACCGTCC 150 GATGGCCTATTCAGGTTGGCGC CGCCCAACCACAACCGTCC 151 GATCCAGTAGGAATCCGCG CGCCCAACCAACCACTCTT 150 GATGGCCTATTCAGGTTGGGCC CGCCCAACCAACCCACTCTT 151 GATCCAGTAGGCAACCACTGA TCATGTGGTTCCGAATAGCCATC 152 AATAACTCGCGGGTTTGTCTC CAGACAATCCAGCACAAACCGTCC 153 GAGGAGGTTTGTCTCGGAAAGCA TCCAGCACAACCCACCACTC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATCACCCACCACCACTC 152 AATAACTCGCGGGGTATGCTTCT AGAAGCATACCCGCGCAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAACAACCCCTCC 154 CTTTGGTTAGGCACATGCTGCCCG CGGGCAGCATGCCCAACCCAA		132	ACTGTTGGCTTGCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
135 AATAAACGGAACGCACCGCTACAG CTGTAGCGGTGCGTTCCGTTTATT  136 TTGTACGTGCGGTCCCCATAAGCA TGCTTATGGGGACCGCACGTACAA  137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG  138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT  20 139 GGAACAGAGGCGAGGGGACTGAGC GCTCAGTCCCCTCGCCTCTGTTCC  140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG  141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGCAGGC  142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAAGGCAGGC  143 TGCGGTGGTTCATTGGAGCTGGC GGCACGCCGAATGAAAACCGTCAG  144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGTTGGCCATGC  145 AGGCCGTAAAGCGAAATCCACCAA TTGCGAGTTCACTTGCCTTTACGGCCT  146 CGAATATTATGCCGAGAATCCCGCA TCATGTGGTTTGGCATAATATTCC  147 ACAGACGAGCTCCCAACCACACTAGA TCATGTGGTTGGGAGTAATATTCG  148 GGACGGTTTGGCTGGATTGTCTC CAGCACACACACACACACACACACTCTT  148 GGACGGTTTGGGTTGGATTGTCTC CAGCACAACCACACACACTCCTT  150 GATGGCCTATTCGGAGATCGGCC GGCCCGAATCCCACACACCACTT  151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGACACCACACACTCT  152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCAATTATT  153 GGAGGAGGTTTGTCTTCAGAAGCAACCCGCGCGCGAGTTATT  154 GATCCAGTAGGCAGCTTCATCCCA TGGGATGACCACACCCACTCCCCACCACCACCACCACCACCACTCCCACCA		133	AGGACCATTCGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
136 TTGTACGTGCGGTCCCATAAGCA TGCTTATGGGGACCGCACGTACAA 137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT 139 GGAACAGAGGCGAGGGGACTGAGC GCTCAGTCCCCTCGCCTCTGTTCC 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGTCAGGT 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCACGCCGAATGAAAACCGTCAG 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGATTGCCATGC 145 AGGCCGTAAAGCGAATCCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACTGA TCATGTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCT CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAAACCGTCC 150 GATGGCCTATTCGGAGATCGCGC GGCCCAACCAACTCAATAGCCTTT 150 GATCCAGTAGGCAGCTTCATCCCA TGGATGAACCTCCCAATAGCCATTC 151 GATCCAGTAGGCAGCTTCATCCCA TGGATGAACCTCCCCCACCACCACCACTCCAACCACACCACTCCAACCACACCAC	15	134	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
137 CGCACCAAACTGAGTTTCCCAGAC GTCTGGGAAACTCAGTTTGGTGCG 138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT 139 GGAACAGAGGCGAGGGGACTGAGC GCTCAGTCCCCTCGCCTCTGTTCC 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGCAGAGT 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCACGCCGAATGAAAACCGTCAG 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTTCGCCTAATGACCACCGCA 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCCCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACTGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTCTGGATTGTTC CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGAGTTGGTTGGGCC CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGCC CGCCCAACCAACTCAATAGCCTTT 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATCCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 154 CTTTGGTATGGCACATGCTGCCC CGGGCAGCATACCCACAAGC 155 AGAAAGGCTCGAGCAACCATGTA TGCTTTCCGAGACAAACCTCCTCC 156 AATCACCGCAGGGAACCA TGCTTCCGAGACAAACCTCCTCC 157 CGTGGCGCCCAACGAGTAGTGCCGCAACAACCAAGCGTTCTTTT 158 AAACGCATAGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACCAGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTCCGGTCGGTCGGTAGATT 157 CGTGGCGCCCACAGTTTTTTGGAGG CCTCCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGACCGT ACGTGCGTTTGGACTCCAA		135	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCCGTTTATT
138 ACCTGATCGTTCCCCTATTGGGAA TTCCCAATAGGGGAACGATCAGGT 139 GGAACAGAGGCGAGGGGACTGAGC GCTCAGTCCCCTCGCCTCTGTTCC 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGTCAGAGT 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCACGCCGAATGAAAACCGTCAG 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTTCGCCATGCCCATGACACACCACCGCA 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTTG CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGGC GGCCCGACCAACCAACTCAATAGCCTTT 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACAAGCA TGCTTTCCGAGACAAACCTCCTCC 155 AGAAAGCTCGAGCACACGGGAACT AGTTCCCGTTGCCAACCAACCTCAACCAACCTCCTCCC 156 AATCACCGCACTGGTCCCCG CGGCCACCATGTCCCAACCAACCTCAACCAACCTCTCCCC 157 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTCCGGACCAATGCCACCACGCCACG		136	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
20 139 GGAACAGAGGCGAGGGGACTGAGC GCTCAGTCCCTCGCCTCTGTTCC 140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGTCAGAGT 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAACACCCGCA 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTTCGCCATGGCCT 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGCATAATATTCG 148 GGACGGTTTGTGCTGGATTGTCT CAGACCAACTCAATCCAGCCTCCTGT 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCCGCG CGCCCAACCAACTCAATAGCCTTT 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTCCCC CGGCCAGCACTACCCAACC 155 AGAAAGCTCGAGCACACTGGTCCCC CGGCCACCAACCAACCTCAACCAACC 156 AATCTACCGCACGGACACT AGTTCCCGTTGCTCTACTCCCA 157 CGTGGCGGCCACACTGTTCGGAAACCA TGCTTTCCCAACACCTTCT 156 AATCTACCGCACTGGTCCGCAACT ACTTCCGAGCCTTTCT 157 CGTGGCGGCCACACTTTTTGGAGG CCTCCAAAAACCTGCCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCCTTTGGGCC		137 .	CGCACCAAACTGAGTTTCCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
140 CCCTGCCTTGGCGTGTCGGCTTAT ATAAGCCGACACGCCAAGGCAGGG 141 ACTCTGACACGCCAACTCCGGAAG CTTCCGGAGTTGGCGTGTCAGAGT 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAACACCACCGCA 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTTAGCCATGC 145 AGGCCGTAAAGCGAATCCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACTGA TCATGTGGTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGCC GGCCCGACCAACTCAATAGCCTTT 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCCTCCTCC 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGAACCACCACTTCTTCT 157 CGTGGCGCCCACAGTTTTTGGAGG CCTCCCAAAAACTGCGCCCACG 158 TTGCAGTTCAATCCCATACCACACT 159 GGCCCAAAGCCCCCAGACCATTTTA TAAAATGGTCTGGGGCCTTTGGGCC		138	ACCTGATCGTTCCCCTATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
141 ACTCTGACACGCCAACTCCGGAAG 142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAACCACCGCA 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGTTGGCCATGC 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTGT 148 GGACGGTTTGTGTGTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 30 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGCC GGCCCAACCAACTCAATAGCCTTT 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGACCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACCACCCCCCCCGCGAGTTATT 154 CTTTGGTATGGCACATGCTGCCCG CGGCCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCCTCCCC 156 AATCTACCGCACTGGTCCGCAAGT ACTTCCGGACCATGCCACCACCACTTTCT 157 CGTGGCGCCCACACTTTTTGGAGG CCTCCCAAAAACTGTGGCCCCCCACCACCACTTTCT 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTTA TAAAATGGTCTGGGGCCTTTGGGCC	20	139	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
142 CTGACGGTTTTCATTCGGCGTGCC GGCACGCCGAATGAAAACCGTCAG 143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAACACCGCCA 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGTTGGCCATGC 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACTGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 30 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGCC GGCCCGATCTCCGAATAGGCCATC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTGCCCG CGGCCAGCATGTCCCAACAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCCAGACCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAACCTTTTCT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACCG 158 TTGCAGTTCAATCCATACGCACCT ACGTGCGTTTGGACCAAACCT		140	CCCTGCCTTGGCGTGTCGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
143 TGCGGTGGTTCATTGGAGCTGGCC GGCCAGCTCCAATGAACCACCGCA  144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGTTGGCCATGC  145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT  146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG  147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTCTGT  148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC  30 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCACACACACCTCTT  150 GATGGCCTATTCGGAGATCGGCC GGCCCGATCTCCGAATAGGCCATC  151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC  152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT  153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT  157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA  40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTTGGGCC		141	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTCAGAGT
25 144 GCATGGCCAACTAGTGACTCGCAA TTGCGAGTCACTAGTTGGCCATGC 145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 30 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCCAGACCATTTTA TAAAATGGTCTGGGGCCTTTTGGGCC		142	CTGACGGTTTTCATTCGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
145 AGGCCGTAAAGCGAATCTCACCTG CAGGTGAGATTCGCTTTACGGCCT 146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 30 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGTGCCGCACG 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA		143	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
146 CGAATATTATGCCGAGAATCCGCG CGCGGATTCTCGGCATAATATTCG 147 ACAGACGAGCTCCCAACCACATGA TCATGTGGTTGGGAGCTCGTCTGT 148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC 149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCCTCCAAAAACTGCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCCAGACCATTTTA TAAAATGGTCTGGGGCC	25	144	GCATGGCCAACTAGTGACTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
147 ACAGACGAGCTCCCAACCACTGA TCATGTGGTTGGGAGCTCGTCTGT  148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC  149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT  150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC  151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC  152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT  153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  35 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT  157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA  40 GGCCCAAAGCCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		145	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTCGCTTTACGGCCT
148 GGACGGTTTGTGCTGGATTGTCTG CAGACAATCCAGCACAAACCGTCC  149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT  150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC  151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC  152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT  153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGTAGATT  157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA  40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCCTTTGGGCC		146	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCG
149 AAAGGCTATTGAGTTGGTTGGGCG CGCCCAACCAACTCAATAGCCTTT 150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC 151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGAAGC CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGAATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTTGGGCC		147	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
150 GATGGCCTATTCGGAGATCGGGCC GGCCCGATCTCCGAATAGGCCATC  151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC  152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT  153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT  157 CGTGGCGGCCACAGTTTTTGAAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGAATTGAACTGCAA  40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		148	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
151 GATCCAGTAGGCAGCTTCATCCCA TGGGATGAAGCTGCCTACTGGATC 152 AATAACTCGCGCGGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT 153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC 35 154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC	30	149	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
152 AATAACTCGCGCGGGTATGCTTCT AGAAGCATACCCGCGCGAGTTATT  153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT  157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGAATTGAACTGCAA  40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		150	GATGGCCTATTCGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
153 GGAGGAGGTTTGTCTCGGAAAGCA TGCTTTCCGAGACAAACCTCCTCC  154 CTTTGGTATGGCACATGCTGCCCG CGGGCAGCATGTGCCATACCAAAG  155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT  156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT  157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG  158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGATTGAACTGCAA  40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		151	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
154 CTTTGGTATGGCACATGCTGCCG CGGGCAGCATGTGCCATACCAAAG 155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		152	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
155 AGAAAGGCTCGAGCAACGGGAACT AGTTCCCGTTGCTCGAGCCTTTCT 156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC	•	153	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
156 AATCTACCGCACTGGTCCGCAAGT ACTTGCGGACCAGTGCGGTAGATT 157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC	35	154	CTTTGGTATGGCACATGCTGCCCG	CGGGCAGCATGTGCCATACCAAAG
157 CGTGGCGGCCACAGTTTTTGGAGG CCTCCAAAAACTGTGGCCGCCACG 158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		155	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
158 TTGCAGTTCAATCCATACGCACGT ACGTGCGTATGGATTGAACTGCAA 40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		156	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCGGTAGATT
40 159 GGCCCAAAGCCCCAGACCATTTTA TAAAATGGTCTGGGGCTTTGGGCC		157	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAAACTGTGGCCGCCACG
		158	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
160 CGCCTGTCTTTGTCTCCGGACAAT ATTGTCCGGAGACAAAGACAGGCG	40	159	GGCCCAAAGCCCCAGACCATTTTA	TAAAATGGTCTGGGGCTTTGGGCC
		160	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAGACAGGCG

	161	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTTGGCCCCTGTTGCCTCA
	162	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
	163	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
	164	GCACGTGAAGTTTAACCGCGATTC	GAATCGCGGTTAAACTTCACGTGC
5	165	AGCGGCAGAAACGTTCCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
	166	TCGTCGAGCAGACGAGATTGCACG	CGTGCAATCTCGTCTGCTCGACGA
	167	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
	168	TTTATGTGCCAAGGGGTTAACCGA	TCGGTTAACCCCTTGGCACATAAA
	169	TGTTACTGTGGTTCACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA
10	170	CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
	171	ACAAATGCGTGAGAGCTCCCAACT	AGTTGGGAGCTCTCACGCATTTGT
	172	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
	173	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGGCGTTATTTG
	174	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
15	175	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
	176	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
	177	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACTCACCAGGTTCC
	178	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
	179	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
20	180	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
	181	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
	182	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
	183	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
	184	AGGCGTGCAGCAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
25	185	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
	186	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTGTCGATGGACCTGGCAA
	187	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCAGTTATAGTGGA
	188	GCCCAGTCGGCTCTAACAAGTTCG	CGAACTTGTTAGAGCCGACTGGGC
	189	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
30	190	TAAAATAAGCGCCTGGCGGAGGA	TCCTCCCGCCAGGCGCTTATTTTA
	191	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
	192	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAACT
	193	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
•	194	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
35	195	TAACCCGATTTTTGCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
	196	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
	197	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
	198	GGAGGCTGGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCCAGCCTCC
	199	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCCACAA
40	200	CCCTCGCACTGTGTTCACCCTCTT	AAGAGGGTGAACACAGTGCGAGGG
	201	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTCGAGTCAATGA

		<u> </u>	
	202	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
	203	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
	204	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
	205	GCGCGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
5	206	CTTATTGGGTGCCGGTGTCGGATT	AATCCGACACCGGCACCCAATAAG
	207	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC
	208	GCTAAAGCGTGCTCCGTAACTGCC	GGCAGTTACGGAGCACGCTTTAGC
	209	ATCTCATGCATCTCGGTTCGTCGT	ACGACGAACCGAGATGCATGAGAT
	210	ACGAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTCGT
10	211	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
	212	ATCGTGCGTGGAGTGTCGCATCTA	TAGATGCGACACTCCACGCACGAT
	213	TCCAGATACCGCCCGAACTTTGA	TCAAAGTTCGGGGCGGTATCTGGA
	214	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
	215	TTGAAATTGCTCTGCCGTCAGTCA	TGACTGACGGCAGAGCAATTTCAA
15	216	AGTCAGGCGAGATGTTCAGGCAGC	GCTGCCTGAACATCTCGCCTGACT
	217	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGCTTAACGTCGGCTTGT
	218	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
	219	GTGAGACACACATCCCCTCCAATG	CATTGGAGGGGATGTGTCTCAC
	220	CGACGGATGCAGAGTTCAGTGGTC	GACCACTGAACTCTGCATCCGTCG
20	221	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
	222	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
	223	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTCGGG
	224	GCGACGCCCTGAGGTATGTCGTC	GACGACATACCTCAGGGCCGTCGC
	225	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
25	226	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
	227	ATGCTAACCGTTGGCCATGGAACT	AGTTCCATGGCCAACGGTTAGCAT
	228	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
	229	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
	230	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
30	231	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
	232	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
	233	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCCGCAAATACGCGA
	234	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGGACATTGTTGACACGCAG
	235	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGGCACCAGA
35	236	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
	237	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
	238	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
	239	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
	240	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
40	241	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCGAAT
	242	TTCGCTTGCTGAGTTGCTCTGTTC	GAACAGAGCAACTCAGCAAGCGAA

	243	CGCGTGAAGACCCCATTCCCGAGT	ACTCGGGAATGGGGTCTTCACGCG
	244	AACCGTATTCGCGGTCACTTGTGG	CCACAAGTGACCGCGAATACGGTT
	245	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC
	246	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
5	247	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
	248	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCCTCGC
	249	ACGCACGCGTGACCGAAGTTGCTG	CAGCAACTTCGGTCACGCGTGCGT
	250	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
	251	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
10	252	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
	253	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
	254	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
	255	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
	256	CCTATCCCGGCGAGAACTTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
15	257	GTCTGCACTCACGCAGCGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
	258	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
	259	AACGTCGCACGACACACGTTCGTC	GACGAACGTGTGTCGTGCGACGTT
	260	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
	261	TCACGTTTTCGTCTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
20	262	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
	263	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
	264	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
	265	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
	266	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTCTCCGCAGGATC
25	267	TACGTGTGGAGATGCCCCGAACCG	CGGTTCGGGGCATCTCCACACGTA
	268	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCCACGATTGACATAGCGC
	269	AGCGAGGTTTCTAGCGTCGACACC	GGTGTCGACGCTAGAAACCTCGCT
	270	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
	271	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
30	272	AGGCCGATTTCACCCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
	273	GAGCCCTCACTCCTTGCCCTTTGA	TCAAAGGCAAGGAGTGAGGCTC
	274	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
	275	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
	276	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
35	277	CGAATGGGTCTGGACCTTGCATAG	CTATGCAAGGTCCAGACCCATTCG
	. 278	GTGCACCAGACATTCGAACTCGGA	TCCGAGTTCGAATGTCTGGTGCAC
	279	AGAGGCCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
	280	AACGCCTGTTCAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
	281	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
40	282	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
	283	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT

	284	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
	285	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTTGGAGGCCG
	286	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
	287	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
5	288	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
Ī	289	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
	290	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
	291	CGCACCGTAAGTAGATTTGCCCGC	GCGGGCAAATCTACTTACGGTGCG
	292	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
10	293	TCCGCCTTTTTGGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
	294	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
}	295 .	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTGTCGG
	296	CATAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTTATG
j	297	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
15	298	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTTCGCC
	299	GGGATGCGTATTTTAGCGAACACG	CGTGTTCGCTAAAATACGCATCCC
	300	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
i	301	CCCGATATTCGCCCGGCCTATTCG	CGAATAGGCCGGGCGAATATCGGG
	. 302	CGAGAAGATGCCTCACGCAACCAA	TTGGTTGCGTGAGGCATCTTCTCG
20	303	AACCTTGACCCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
	304	GGCTAGACGATGGATACCCGTGCC	GGCACGGGTATCCATCGTCTAGCC
	305	GCCTCTTCTCGACGATGCGATTTT	AAAATCGCATCGTCGAGAAGAGGC
	306	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAGC
	307	CCCTCCATGTTCTTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
25	308	TTGATGGGCGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCCATCAA
	309	ATTGTGAGATGCGCCAAATTCCCC	GGGGAATITGGCGCATCTCACAAT
:	310	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
	311	ACTCCACTCCTCGGTGGCAAACTA	TAGTTTGCCACCGAGGAGTGGAGT
	312	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCCAGA
30	313	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCGTACCGGAGTTGAGA
	314	TTGCGTGGTCAAAGGCGCAACGTG	CACGTTGCGCCTTTGACCACGCAA
	315	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
	316	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
	317	AGGCGCACATGTACGGACATTCAG	CTGAATGTCCGTACATGTGCGCCT
35	318	GATGAGTGGCACGTCGGTGTGTAA	TTACACACCGACGTGCCACTCATC
	319	TGATCCATATTGTCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
	320	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCCGGCAGGT
	321	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
	322	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTCGCGCTGAATATTACC
40	323	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
	324	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA

_			
	325	ACTGCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
	326	CCTTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACTTCAGGCCAAAGG
	327	GTGCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
	328	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCCACGTAGCGCCT
5	329	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
	330	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
	331	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
	332	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTTCGTAGGGCCGGACC
	333	CCGTGTGGCTGGAGATTCGTGTGA	TCACACGAATCTCCAGCCACACGG
10	334	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
	335	GGGTCAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
	336	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTCGACTTCACGGC
	337	GCCACCACCAGTGCATTCAGGTA	TACCTGAATGCACTGGGTGGTGGC
	338	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACTAAGCTC
15	339	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
	340	GCTCCGCTGGATGTGCCGGTTTAG	CTAAACCGGCACATCCAGCGGAGC
	341	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
	342	CTACGCTCTACCAGTTGCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
	343	GTGCCTCCTGCTGTATTTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
20	344	TTGCGACTCGACTTGGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
	345	TCTGGGAGCTGTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
]	346	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
	347	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTTCGATTCATTTGCTGCCA
	348	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAGTT
25	349	AGACGATTACGCTGGACGCCGTCG	CGACGCCGTCCAGCGTAATCGTCT
	350	ATGCCCTCCTTCATGGAAAGGGTT	AACCCTTTECATGAAGGAGGGCAT
	351	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
	352	ATAGCGGAGTTTGGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
	353	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
30	354	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAGGTAATC
	355	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
	356	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
	357	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
	358	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
35	359	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCGTGA
	360	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
	361	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
. [	362	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGACAGAACGGATTCACAA
	363	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
40	364	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
	365	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTCGGTGCA

	366	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
	367	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
	368	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCAATGCCA
	369	CGCGTCCCAGCGCCCTTGGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
5	370	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCGGTAGGCTTCAT
	371	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
	372	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
	373	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
	374	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
10	375	ATTACGGTCGTGATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
	376	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
	377	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCCC
	378	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCCACATCCGAGG
•	379	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
15	380	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
	381	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACCGGCGTA
	382	CATACGATGTCCGGGCCGTGTCGC	GCGACACGGCCCGGACATCGTATG
	383	ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACTGCGGAT
	384	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
20	385	ATTGGAGTGTTTTGGTGAATCCGC	GCGGATTCACCAAAACACTCCAAT
	386	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
	387	GCCGTCAAGCTTAAGGTTTTGGGC	GCCCAAAACCTTAAGCTTGACGGC
	388	ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
	389	AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCCACGATT
25	390	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
	391	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
	392	ATCCGGGTGGCGATACAAGAGAT	ATCTCTTGTATCGCCCACCCGGAT
	393	TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394	GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
30	395	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCG
	396	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACTGCGCTCATGAG
	397	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
	398	TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
	399	TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
35	400	ACGCACGGCGCTTTTGCCTTAATG	CATTAAGGCAAAAGCGCCGTGCGT
	401	TGACAACGTCACAAGGAGCAGGAC	GTCCTGCTCCTTGTGACGTTGTCA
	402	CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
	403	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
	404	CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
40	405	AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
	406	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT

			·
	407	GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
	408	TGTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
	409	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
	410	GCCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTCGGATTAGCGGGC
5	411	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
	412	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTC
	413	AACCAGCCGCAGTAGCTTACGTCG	CGACGTAAGCTACTGCGGCTGGTT
	414	TTTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
[	415	GGTGCTCCGTTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
10	416	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
	417	TAAGACATACCGACGCCCTTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
	418	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
	419	TAAAAGTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
l	420	CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACTCAGCTCGTCTGGACCG
15	421	CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
	422	GCTTGGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC
	423	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAAACTCTGGGATCCCGCT
	424	GAGCTTGAGAGCGAGGTCATCCTC	GAGGATGACCTCGCTCTCAAGCTC
	425	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC
20	426	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
	427	ACCCGACAACCACCAATTCAAAAA	TTTTTGAATTGGTGGTTGTCGGGT
	428	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
	429	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
	430	GACATCGGGAGCCGGAAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
25	431	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTCGCCGAGTCTACACGA
	432	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
	433	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
	434	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
	435	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA
30	436	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
	437	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCCAGTCCTGGCGAC
	438	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
	439	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
	440	ACGCGCCCTGCATCTCGTATTTAA	TTAAATACGAGATGCAGGGCGCGT
35	441	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
	442	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
	443	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
	444	GCTGGACTTAGTCGTGTTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
	445	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
40	446	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
	447	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
•		<del></del>	<u></u>

Г	448	ACCCATCGCCGGAAAGCGATGTTG	CAACATCGCTTTCCGGCGATGGGT
ŀ	449	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
-	450	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAGT
ŀ	451	TCTCAATATTCCCGTAGTCGCCCA	TGGCGACTACGGGAATATTGAGA
5	452	AACAGTTCCTCTTTTTCCTGGCGC	GCGCCAGGAAAAAGAGGAACTGTT
` }	453	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTGACAACATGGAGGACG
		TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
. }	454	ATGGACGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
	455		
	456	TGAACGCTTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
10	457	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
	458	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
	459	AGGGTACGTGTCGCAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
	460	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
	461	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
15	462	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
	463	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAACGTCTCGGACAAC
	464	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCGTGAGTGTTCACCAGC
	465	GCAGACAGGGCAAATCGGTGCAAA	TTTGCACCGATTTGCCCTGTCTGC
	466	CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
20	467	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
	468	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATTC
	469	CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
	470	TTTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
	471	GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCATCACATAGCCGC
25	472	AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
	473	TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACACACAGGA
	474	CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
	475	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
	476	CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
30	477	CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTCGCACTAACCGGACGAAG
	478	CTCACGAAAACGTGGGCCCGAAAT	ATTTCGGGCCCACGTTTTCGTGAG
	479	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
	480	AGGAGACATACGCCCAAATGGTGC	GCACCATTTGGGCGTATGTCTCCT
	481	ATTGAGAACTCGTGCGGGAGTTTG	CAAACTCCCGCACGAGTTCTCAAT
<b>3</b> 5	482	CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
	483	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
	484	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
	485	CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
	486	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
40	487	CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
- <del>-</del>	488	GGAAATGAGAACCTTACCCCAGCG	CGCTGGGGTAAGGTTCTCATTTCC
		100,000,000,000	000,000000

_			
	489	AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
	490	TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCCA
	491	TTGCGCTCATTGGATCTTGTCAGG	CCTGACAAGATCCAATGAGCGCAA
	492	AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
5	493	AGCCAGTAAACTGTGGGCGGCTGT	ACAGCCGCCCACAGTTTACTGGCT
	494	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
	495	GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
	496	GCGCAAATCCACGGAACCCGTACC	GGTACGGGTTCCGTGGATTTGCGC
	497	ACGCAGTTTATTCCCCTGGCTTCT	AGAAGCCAGGGGAATAAACTGCGT
10	498	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
	499	AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
	500	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
	501	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC
	502	GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
15	503	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
	504	CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
	505	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
	506	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
	507	TGCACACTAGGTCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
20	508	AGGGAACCGCGTTCAAACTCAGTT	AACTGAGTTTGAACGCGGTTCCCT
	509	GAATTACAACCACCCGCTCGTGTT	AACACGAGCGGGTGGTTGTAATTC
	510	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
	511	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA
	512	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
25	. 513	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
	514	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
	515	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCGCGACTAAAATCATTA
	516	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
	517	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
30	518	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
	519	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
	520	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
	521	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
	522	GTGTCGGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
35	523	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
	524	TTCCGAAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
	525	GCAAACCCGGTAACCCGAGAGTTC	GAACTCTCGGGTTACCGGGTTTGC
	526	GCAAATGGCGTCATGCACGAACGT	ACGTTCGTGCATGACGCCATTTGC
	527	AGTACTTTCGCGCCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
40	528	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
	529	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC

-151-

Ċ

	530	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCGG
	531	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
	532	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
	533	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
5	534	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCTGACGGAA
	535	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
	536	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
	537	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
	538	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
10	539	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC
	540	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
	541	ACGTCAGCGATTGTGGCGAAATAT	ATATTTCGCCACAATCGCTGACGT
	542	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
	543	ATACCTCCGCAGAACCATTCCGTT	AACGGAATGGTTCTGCGGAGGTAT
15	544	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
	545	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTCTGCACAAATTGAGCA
	546	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
	547	GACGCGACGTGAGTAGTGGAAGCG	CGCTTCCACTACTCACGTCGCGTC
	548	ATGGTAGGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCCTACCAT
20	549	CCAAATATAGCCGCGCGGAGACAT	ATGTCTCCGCGCGGCTATATTTGG
	550	GCAAACCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTTGC
	551	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
	552	CCACCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTCGGGGTGG
	553	ACGAGCACTGAAGGCTGCTTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
25	554	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
	555	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
	556	GGCCCCGACACTACAGGGTAATCA	TGATTACCCTGTAGTGTCGGGGCC
	557	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
	558	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
30	559	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCTCCCTATGCGCCTGTG
	560	TAGCTATTGCCCCGATGGGCTACT	AGTAGCCCATCGGGGCAATAGCTA
	561	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
	562	GACGCTGTGGCTCGGAAACTGTTC	GAACAGTTTCCGAGCCACAGCGTC
	563	CCTGGGTTCGCCGCGTGGTAACTG	CAGTTACCACGCGGCGAACCCAGG
35	564	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGGCTACGCGGGAA
	565	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
	566	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTTCGGTGCCATTTTT
	567	CATTCCGCGCGAGTTGAAATCCAG	CTGGATTTCAACTCGCGCGGAATG
	568	ACGCACGTTTTTTGGCACGGTTAA	TTAACCGTGCCAAAAAACGTGCGT
40	569	TGTCCATGACGTCGTTTCTCTGGT	ACCAGAGAAACGACGTCATGGACA
	570	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATACGAGTCCGACTGAGA
			-

	571	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTTGGAG
	572	TTCAACCAAGCGGGGTGTTCGTGA	TCACGAACACCCCGCTTGGTTGAA
	573	GGTGTCGGAGGGTGGTGACCTCGA	TCGAGGTCACCACCCTCCGACACC
	574	AGCGCTTTTGGTCATGATTTGCAA	TTGCAAATCATGACCAAAAGCGCT
5	575	CCGAGGACTTACGTCTGCCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
:	576	GCCCAATCCAGTTCTTATGCGCCC	GGGCGCATAAGAACTGGATTGGGC
	577	CGGGTTAACCCACGCAAGTTATGA	TCATAACTTGCGTGGGTTAACCCG
	578	TGATTAGCGCTCAATACACGCGTG	CACGCGTGTATTGAGCGCTAATCA
	579	AAGGCAGACCTTTGGTTCGACTG	CAGTCGAACCAAAGGTCTGCCCTT
10	580	GCGCCACAAGATTCACATGTCATT	AATGACATGTGAATCTTGTGGCGC
	581	GCCATGTTCAAGGGCCTTTCGAAG	CTTCGAAAGGCCCTTGAACATGGC
:	582	CGCGGTGTTTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
	583	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCACAATGTTG
	584	CGATACGCGCCGGTTTGTTAAATC	GATTTAACAAACCGGCGCGTATCG
15	585	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
	586	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA
	587	GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC
	588	GCGACACCCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
	589	GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
20	590	TCGCCAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
	591	ACTCCGAAGCTTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
	592	TCCCGCCCACTAGACTGACTCGTA	TACGAGTCAGTCTAGTGGGCGGGA
	593	ACCTTCTGGGGTCGCTCACCAATA	TATTGGTGAGCGACCCCAGAAGGT
	594	ATCATCCCACGGCAGAGTGAAGAG	CTCTTCACTCTGCCGTGGGATGAT
25	595	CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
	596	CGGTCTCAGCAACACTGTCGCAAA	TTTGCGACAGTGTTGCTGAGACCG
	597	CGAACGTTCTCCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCG
	598	ATACCGTGCGACAAGCCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
	599	AGCTCATTCCCGAGACGGAACACC	GGTGTTCCGTCTCGGGAATGAGCT
30	600	TTTCATGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
	601	ACTCGAACGGACGTTCAATTCCCA	TGGGAATTGAACGTCCGTTCGAGT
	602	CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
	603	CCGCGAGTGTGGATGGCGTGTTGA	TCAACACGCCATCCACACTCGCGG
	604	AATGTGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
35	605	TAAGACGAGCCTGCACAGCTTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
	606	GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCCACGCC
	607	TGCTCCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
	608	CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
	609	CCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
40	610	AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
	611	ACTTGCATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT

10 620 TCCGCGTGGACTGTTAGACGCTAT ATAGCGTCTAACAGTCCACGCGGA 621 CATTAGCCCGCTGTCGGTAACTGT ACAGTTACCGACAGCGGGCTAATG 622 GGAAAGAAACTCAGACGCGCAATG CATTGCGCGTCTGAGTTTCTTCC 623 CGACTCGCTGGACAGGAGAATCGT ACGATTCTCCTGTCCAGCGAGTCG 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATGGCATCACT 627 TATGGAAAGGGCAACAGCGCTATC GATAGCGGCTGTTGCCCTTTCCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCCCAAACTCACACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGTTCGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGAGCGCAAATTGACC 633 GATGGTGGACTGCACCCCTA TAGGGCATGAGCGCGAATTGACC 634 CCGCGCATAGCGCATAGGGGAGA TCTCCCCTATTGCGCTACCACCATC 635 TCTTCTGGCTGTCCGGCACCCGAA TTCCGCGTGAATTGCGCCGG 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGCCG 637 TCGTTTCGGCTTTCGGCCCTAA TAAGGGCCCGTGAATTGCGCCC 638 AGGTGCAAGTGCAGGCGAACGC 639 CGCCAGTTTCAGCGCACCCGAA 638 AGGTGCAAGTCCAGGGCGAACGC 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACGA 638 AGGTGCAAGTGCAAGGCGAAGGC 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGCTTTCGTCAAGCAC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTTTCTCTCAAGCAC				
614 GCAATTCTGGGCCATGTATTCGTC GACGATGCCCCAGAATTGC 615 AGGGTTCCTTAGGGCGCACATGG CCATGTGGACGCGTAAGGAACCCT 616 GTGGAAGCTAATCGCGAGCCTCAGA TCTGAGGCTCGCGATTAGGCACCCT 617 TCGTAGTCTCACCGGCAATGGTCC GGATCATTGCCGGTGAGAACCCT 618 TTATAGCACTGCGCCAATGCTCC GGATCATTGCCGGTGAGACACCAC 619 CGAACAGTGCTGCGCCAATGCTCG CGAAGCATTGGCGCACTGCTATAA 619 CGAACAGTGCTGTCCGTCCAA TTGAGCGCACTGCTATAA 619 CGAACAGTGCTGTCCGTCCAA TTGAGCGCACAGCACTGCTATAA 620 TCCGCGTGGACTGTTAGACGCTAT ATAGCGCTAACAGTCCACGCGGA 621 CATTAGCCCGCTGTCGGTAACTGT ACAGTTACCGACAGCGGCATAGCCACAGCACCTGTTCG 622 GGAAAGAAACTCAGAACGCGCAATG CATTGCGCGTGTAGAGTTTCTTCC 623 CGACTGCGTGACAGGAGAATCGT ACAGTTACCGACAGCGGCATATC 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAAGCAGCCCTAAAACCTTCCGG CCGAGGGTTAACAGTTCCTGTCCAGCGAGTTCG 626 AGTGATGCCATCAAGCCCTAAAACCTTCCGG CCGAGGGTAAACAGAGGATCATG 627 TATGGAAAGGGCACAACGCCCTATAC GTATACCGGCTGTAGCACTACCCC 628 CTGTGGTTGATGAGACGCCCTATAC GTATACCGGCCTTTTCCATA 628 CTGTGGTTGATGAGAGCACCAACC GTGTGAGCCCTTTCCATA 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGAGCCCAAATCCACAC 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGAGCCCATTCACACACAC 630 CAGGCCCGAACCACCGCGTTACAC TTGTAACCGCGTGTTTCCACCACAC 631 GGCGCAAATGGGCCTACAAC GTGTGAACCGCGTTTCCACCACCAC 632 GGTCAATTGCGCCTACAATC TAGTATTATGCGCCCAATTTCACGCGAGT 633 GATGGTGGACTGGAGCCCTTCCGC GCGGAAGGGCTCCACCATCCCCCACCACCACCACCACCACCACCACCAC		612	TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
615 AGGGTTCCTTACGCGTCGACATGG CCATGTCGACGCGTAAGGAACCCT 616 GTGGAGCTAATCGCGAGCCTCAGA TCTGAGGCTCGCGATTAGCTCCAC 617 TCGTAGTCTCACCGGCAATGATCC GGATCATTGCCGCGATTAGCTCCAC 618 TTATAGCAGTGCGCCAATGATCC GGATCATTGCCGGTGAGACTACGCGCATGATCA 619 TCGAGAGCTGCGCCAATGATCC CGAACCATTGCCGCGACTGCTCATAA 619 CGAACAGTGCTGCTCGCTCCAA TTGAGCGACGGACAGCACTGTTCG 620 TCCGCGTGGACTGTTAGACGCTAT ATAGCGTCTAACAGCCACGCGGA 621 CATTAGCCCGCTGTGGGTAACTGT ACAGTTCACCAGCGGGACAGCACTGTTCG 622 GGAAAGAAACTCAGACCGCCAATG CATTGCGGCTCTGAGTTACTATGC 623 CGACTGCTGGGACAGGAAATGGT ACAGTTCCCGACGGAGACAGCACTGTTG 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCCCTTAAAAGCTTCGG CCGAGCGTTTTAGAGCGCTACCGC 626 AGCGTAGCCCTTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACCC 627 TATGGAAAGGGCACACAGCGCATAC GTATACGGGCCTGATGGCATCACT 628 ACTGTGGTTGATGAGGACCCCGTATAC 629 ACTCGCTGGAACAGCGCTATC GATAGCGCTGATGCACTACACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCCCACACCACA		613	ATGCAGATGAACAAATCGCCGAAT	ATTCGGCGATTTGTTCATCTGCAT
616 GTGGAGCTAATCGCGAGCCTCAGA 617 TCGTAGTCTCACCGGCAATGATCC 618 TTATAGCAGTGCGCCAATGATCC 618 TTATAGCAGTGCGCCAATGATCC 619 CGAACATTGCCGCCAATGCTTCG 620 TCCGCGTGAGCTTTAGACGCTCAA 619 CGAACAGTGCTCGCTCCAA 619 CGAACAGTGCTGCGTCCAA 619 CGAACAGTGCTGCGTCCAA 619 CGAACAGTGCTGCGTCAA 619 CGAACAGTGCTGCGTCAA 620 TCCGCGTGGACTGTTTAGACGCTAT 621 CATTAGCCCGCTGTCGGTAACTGT 622 GGAAAGAACTCAGACGCGCAATG 622 GGAAAGAACTCAGACGCGCAATG 623 CGACTCGCTGGACAGGAGAATCGT 624 CATGATCCTCTGTTTCACCCGCGG 625 GGCGTAGCGCTCTAAAAGCTTCGG 626 AGTGATCCTCTGTTTCACCCGCGG 627 TATGGAAAGGGCACACAGCGCTATAC 628 GTGGTGAACAGAGGGTAACC 629 ACTCGCTGGAACAGCAGCAGCTATC 620 TATGGAAAGGGCAACACGCGCTATC 620 TATGGAAAGGGGAACACCGCGTATC 621 TATGGAAAGGGCAACACCGCGTATC 622 GTGAACACACACGCGCTACC 622 ACTCGCTGGAATTTCCGCCGCG 623 ACTCGCTGGAATTCACCACC 624 CATGATCCTCTTCACCACCC 625 ACTGGTGAACCACCGCGTTACC 626 AGTGATGCCATCAGGCCCGTATC 627 TATGGAAAGGGCAACACGCGCTATC 628 CTGTGGTTGATTGAGGCCCGTATC 629 ACTCGCTGGAATTTCGCCTACCAC 629 ACTCGCTGGAATCACCAC 629 ACTCGCTGGAATTCACGCCTGACCAC 620 CAGGCCCGAACCACGCGGTTACAG 631 GGCGCAATTGGGCTGACAC 632 GGTCAATTCGCCTAACCACC 633 GATGGTGACCTACACCACC 634 CCCGCGCATACCACGCGGTTACCAG 635 GATGGTGACCTCCACCAA 636 CCCCCAATTCGCCCTA 637 TCTCTTGGCCTTGACCCCACA 638 GCGTTCGCACATTCCGC 639 CCCCCAATTCCGCCCAATAGCGCAAT 631 TCTTCTGGCCTTGGACCCCTTA 632 CTTTCCGCCCAATAGCGCAAA 633 CATGGTGCAATTCACGGGCAAA 634 CCGCGCATTCACCACCGAA 7TCGGCTGCACCCGAAA 7TCGGTTCCACCAATTCACGGCCCTTA 635 CCCCAGTTTCCGCCCAATAGCGCAAA 636 GCGTTTCGCCCTTGACCTCAGCCCAAA 637 TCGTTTCGGCCTTGGACCCTTA 638 AGGTCAAGTGCAAGGCAAACACCCGAAA 639 CGCCAGTTTCCACCACCGAA 640 GCTTTACCGCCAATAGCGCAATACACCACCGAA 641 GTGCTTGACGAAGAGCACCCGAAA 642 CAGTCCGTGCACCTCAGCCAAA 643 TACCGCCATTCGCCCAACACACCCGAAA 644 GGCGAAGGCAAGACACCCCGAA 645 CCCAAGGCACCCGAAA 646 GCCTTCGCCCACGTACCACGCAATAGACCCACCCAAAAACACCCCCGCCACAAAACACCCCCGCCACAAAACACCCCCACAAAAACACCCCCC		614	GCAATTCTGGGCCATGTATTCGTC	GACGAATACATGGCCCAGAATTGC
617 TCGTAGTCTCACCGGCAATGATCC 618 TTATAGCAGTGCGCCAATGCTTCG 618 TTATAGCAGTGCGCCAATGCTTCG 619 CGAACAGTGCTGCGCCCATGCTCAA 619 CGAACAGTGCTGCGCTCAA 619 CGAACAGTGCTGCGCTCAA 620 TCCGCGTGGACTGCTTCAA 621 CCTCGCGTGGACTGCTTAACAGTCCACCGCGA 622 TCCGCGTGGACAGCGCATGCTTACAGTCCACCGCGA 622 GGAAAGAACTCAGACGCGCAATG 622 GGAAAGAACTCAGACGCGCAATG 623 CCACTCGCTGGGTAACTGT 624 CATGACCCTGTTTCACCCGCGC 625 GGCGTAGCGCGCAATG 626 CACTCGCTGGACAGGAGAATCGT 627 CACACTCCACTGTTAACAGCTCCGC 628 AGGATGCCTCTAAAAGCTTCGG 628 AGGATGCCATCAGACCGCGATATC 629 ACTGGTGACAAGCGCCGTATAC 629 ACTCGCTGGACAGCGCCGTATAC 629 ACTCGCTGGACAGCGCCGTATAC 629 ACTCGCTGGATTTGCGCCCGTATAC 629 ACTCGCTGGATTTGCGCCCGTATAC 629 ACTCGCTGGATTTGCGCCCGTATAC 629 ACTCGCTGGATTTGCACCAC 629 ACTCGCTGGAATTTGCGCCCGTATAC 630 CAGGCCCGAACCACCGCGTTACAC 631 GGCGCAATGCACCACCGCGTTACAC 632 GGTCAATTCCGCCCGTTACAC 633 GATGGTGGACCACACCGCGTTACAC 634 CCCGCCATACCACCGCGTTACAC 635 GGCGCAACCACCGCGTTACCAC 636 GATGATCGCCCATACACACCAC 637 TCTTCTGGCCCATCAGCCCAA 638 GATGGTGGACTGACACCCCGAA 7 TCCGCTGGAATTCACGCCCTTA 7 TAGGGACCCGAATACACACCACC 634 CCCGCCATACCACCGCGTTACAC 635 TCTTCTGGCCCACCCGAA 7 TCCGTTTCCGCCCACCACC 636 GCGTTCGCAATTCACGGCCCTTA 637 TCGTTTCGGCCACCCGAA 7 TCGGTGCCGACACCACCGAA 7 TCGGTTCGCAATTCACGGCCCTTA 638 AGGTCAACTCACGGGCCCTTA 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCCGCC 639 CGCCAGTTTCGACCGGACCCGAA 7 TAAGGGCCCGGAACGCACAACA 639 CGCCAGTTTCGACCGGCCCTTA 7 AAACCGCCACCGAAACGA 639 CGCCAGTTTCGACCGCACCACAA 640 GCTTTACCGCCGCCCCGCAA 641 GTGCTTGACGAAGAGCACACACAC 642 CAGTCCGTGCCGCACCCGAA 643 TACCGCTTCGCCTTCGCC 644 GCCGAGTTCTTCGCCC 645 CCAAACCACCACAACACCCCACAACACCACCACAACACCACCACA		615	AGGGTTCCTTACGCGTCGACATGG	CCATGTCGACGCGTAAGGAACCCT
618 TTATAGCAGTGCGCCAATGCTTCG CGAAGCATTGGCGCACTGCTATAA 619 CGAACAGTGCTGTCCGTCGAA TTGAGCGACGGCACTGCTATAA 619 CGAACAGTGCTGTCCGTCGCTCAA TTGAGCGACGGCACACTGTTCG 620 TCCGCGTGGACTGTTTAGACGCTAT ATAGCGTCTAACAGTCCACGCGGAA 621 CATTAGCCCGCTGTGAGTAACTGT ACAGTTACCGACAGCGGGCTAATG 622 GGAAAGAAACTCAGACGCGCAATG CATTGCCGCGTCTAGTG 623 CGACTCGCTGGACAGCAGAATGCT ACGATTCTCTCTCTCCACCGAGTCG 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATAGCGGCTGATGACGCC 627 TATGGAAAGGCCACACAC GTGTGGACCTCATCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGGACTCCATCATA 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGACCCCTATCCATCAAACACACAC 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGACCCCTATCCATCAAACACACAC 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCCGACCATG 631 GGCGCAATGAGGCCCATAAATACTA TAGTATTTATGCGCCCATTCCACCATC 632 GGTCAATTCGCGCCATCAATGCCCTA TAGGGATGTAGCGCCAATTCCAGCCACACCACCACCACCACCACCACCACCACCACCAC	5	616	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
619 CGAACAGTGCTGTCCGTCCAA TTGAGCGACGGACAGCACTGTTCG 620 TCCGCGTGGACTGTTAGACGCTAT ATAGCGTCTAACAGTCCACGCGAA 621 CATTAGCCCGCTGTCGGTAACTGT ACAGTTACCAGCGGACAGCGGGCTAATG 622 GGAAAGAAACTCAGACGCGCAATG CATTGCGCGTCTGAGTTTTCTTCC 623 CGACTCGCTGGACAGGAGAACCGT ACAGTTACCGACAGCGGGCTAATG 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAACCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCTGATGGCCATCACT 627 TATGGAAAGGGCACAGCGCTATC GATACGGGCCTGATGGCCATCACT 628 CTGTGGTTGATGGAGGACTACC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGACTCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTAACCGCGCAAATTCCAGCCAGT 630 CAGGCCCGAACCACGCGGTTACAG 631 GGCGCAATTGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCTA TAGGGCATGAGCCACATTGCGCC 633 GATGGTGGACTGGAGCCCTTCCGC GCGGAAGGGCACACCACATGCCCATC 634 CCGCGCATAGGGCAATAGGGGAGA TCTCCCCTATTGCGCCTGGGAAGCACACACGCGGTTACAGCACATGCCCTA TAGGGCATTGCGCCGGGAAGACAACACGCGGTTCCAGCCAATTGCGCCATTCCGCC GCGGAAGGGCCTCCAGTCCACCATC 634 CCGCGCATTGCGCCAATTGCGCCATACATACTACTA TAGGCCCTATTGCGCCAATTCCGCCGGGTTCCGCC GCGGAAGGCCACACCACA		617	TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
620 TCCGCGTGGACTGTTAGACGCTAT ATAGCGTCTAACAGTCCACGCGGA 621 CATTAGCCCGCTGTCGGTAACTGT ACAGTTACCACAGCGGGCTAATG 622 GGAAAGAAACTCAGACGCGCAATG 623 CGACTCGCTGGACAGGACGAATG 624 CATGATCCTCTGTTTCACCCGCG CCCGCGGGTCTGAGTTTCTTTCC 625 GGCGTAGCGCTCTAAAAGCTTCGG 626 CAGTAGCGCTCTAAAAGCTTCGG 627 TATGGAAAGGGCCATTC GTATACGGGCCTGATGGCCTACACT 627 TATGGAAAGGGCACACC GTATAC GTATACGGGCCTGATGCCATCAG 628 CTGTGGTTGATGGAGGAGTATC GATACCGGCCGAAATTCACACACAC 629 ACTCGCTGAACACAGCGCTATC GATACCGCCGAAATTCCACCACAG 629 ACTCGCTGAAATTGCGCTGACAC GTGTGGATCCTCATCAACCACAG 630 CAGGCCCGAACCACCGCGTTTACAC 631 GGCGCAATTGGGCCTAAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATC TAGGGCATGTAGCCCATC 633 GATGGTGGACTCACACC GCGGAAGCACCGCGAATTGAGC 634 CCGCGCATAGAGCCCTTAC 635 TCTTTCTGGCTGCGCACACCCCGAA TCCCCCTATTGCGCTATGCGCC 636 CCGTCGCAATTCAGGGAGAATACTA 637 TCGTTTCGGCTGCGCACCCGAA TCCCCCTATTGCGCCAAACACACGAG 638 AGGTCCAATTCAGGGCACCCACACCGAG 639 CGCCAGTTTCAGGGCCCTTA 639 CGCCAATTCAGGGCACCCACACCCGAA 639 CGCCAGTTTCAGGGCCCTTA 639 CGCCAATTCAGGGCACCCAAA 639 CGCCAGTTTCAGGGCCCTTA 639 CGCCAGTTCCGCGCACCCGAA TCCGCCCTTACCCCCTA 639 CGCCAGTTTCAGGGCCATACATCC 639 CGCCAGTTTCAGGGCCCTTA 640 GCTTTCAGGCCTTGGAGAGACAC 641 GTGCTTGACGAAGACACCCCAA 642 CAGTCCGTGCGCCTTACTCCCCCCACACCACACCACCCAC		618	TTATAGCAGTGCGCCAATGCTTCG	CGAAGCATTGGCGCACTGCTATAA
10 621 CATTAGCCGCTGTCGGTAACTGT ACAGTTACCGACAGCGGCCTAATG 622 GGAAAGAACTCAGACGCGCAATG CATTGCGCGTCTGAGTTTCTTTCC 623 CGACTCGCTGGACAGGAGAATCGT ACGATTCTCCTGTCCAGCGAGTCG 624 CATGATTCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATAGCGC 627 TATGGAAAGGGCAACAGCGCTATAC GATAGCGGCTGATGCCCT 628 CTGTGGTTGATGGAGGATCCACC GTGTGGACCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTCACC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGAGCCCAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCGGCCTG 631 GGCGCAATTGGGGGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGGGCTACATTCCAC GCGAAGTTTAACGGCCAATTTCAGCCCATC 633 GATGGTGGACTGAGCCCTTCCGC GCGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAAA TCCCCCTATTGCGCCAACCACCACC 635 TCTTCTGGCTGTCCGGCACCCCGAA TTCGGGTGCCGGACAGCAACAACA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGCGAAAGAA 637 TCGTTTCGGCTGTCCGGCACCCCGAA TTCGGGTGCCGGACAGCCAGAAGA 638 AGGTGCAAGTGCACAGCGGAATAGCCCTTA TAAGGGCCCGTGAATTGCGCCAGAACGA 639 CGCCAGTTTCGACGCAATCACGGGCCCTTA TAAGGGCCCGTGAATTGCGACCCT 639 CGCCAGTTTCGATGGCAAGAGAGCCAGAAACGA 640 GCTTTACCGCCAAGCACGCAAATTC AACACTCGCCAACGGCCAAAACGA 641 GTGCTTTCGATGGCTGAAGTT AACACTCGCCATCGAAACTGGCC 642 CAGTCCGTGCCTTCATGTCCTCA TGAGGACATGGGCGGGAAACGA 643 TACGCGTAAGAGAGGCGAAATGT AACACTTCGCCCTTTCGACCTT 644 GGCGAATCTCGACGTTT AACACTCTCCCCACAAGACTGGCC 645 TACGCGTAAGAGACGCACAGAATTC AACATTCTGCCCTTTCGCTCTAAGCAC 646 GCCTTTACCGCCGACCTTCATCTCCCACCAAGACTCGACACGTA 647 AAACCGCGAAGCGAACGCAACGAACCTACCACGCC 648 GCCTTCGCTTTCTTCGCCCACAAGACCTACCGCC 649 TAAACCGCGAAGCGAACGCTACCCTCGCG TCAAATTCGCCCTTTCGCTTTTCGCCACTTCGCCTTTCGCCTTTCGCCACACAGACCTACCGGCC 649 TGTAGAGTCCCAGGAACGCTACCCTCGCAACACCTACCGCGGACTGCAAGACCTACCGGGCAAGCCAAGACCCACGGACCTACGGGCCAAGACCCACAGGCCCACAGAGCCACACGCCCCGGACTTCACACGCACCACACACCACCCCCGGACTTCACACGCCCCCACAAGACCCACCGGACCCACACACCCACCGGACCCACACACCCACCGGACCCACACACCAC		619	CGAACAGTGCTGTCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
622 GGAAAGAACTCAGACGCGCAATG CATTGCGCGTCTGAGTTTCTTTCC 623 CGACTCGCTGGACAGGAGAATCGT ACGATTCTCCTGTCCAGCGAGTCG 624 CATGATCCTCTGTTTCACCCGCGG CGGCGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC 627 TATGGAAAGGGCACACAGCGCTATC GATACCGGCCTGATGCCATCACTC 628 CTGTGGTTGATGGAGGATCACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCCCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGTTCCGCCTTTCCATA 632 GGTCAATTCGCGCTACATC TAGGAGCATCTCAGCCCATGCCCT 632 GGTCAATTCGCGCTACATTCACCCACA GTGTCAGCCCATTGCGCC 633 GATGGTGGACCCCTTCCCC GCGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCATTAAATACTA TAGTATTTATGCGCCCATTGCGCC 635 TCTTCTGGCTGTCCGGCACCCCTCCCC GCGAAGGGCTCCAGTCCACCATC 636 GCGTTCGCAATTCACGGGCCCTTACACCACTC 637 TCGTTTCGGCTGTCCGGCACCCCGAA TTCGGCTGCGCACACCACAC		620	TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
623 CGACTCGCTGGACAGGAGAATCGT ACGATTCTCCTGTCCAGCGAGTCG 624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATGGCATCACT 627 TATGGAAAGGGCAACAGCGCTATC GATAGCGCTTGTCCATCACCACAC 628 CTGTGGTTGATGGAGAGATCCACAC GTGTGGATCCTCCATCAACCACAC 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCGGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTGACATGCCCTA TAGGGCATGAATGACC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCCACACTC 635 TCTTCTGGCTGTCCGGCACCCCGAA TTCGCGCTGATTGCGCC 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGAACGCCAGAAGA 637 TCGTTTCGGCTGCCGCACCCCGAA TTCGGGTGCCCGAACGCC 638 AGGTGCAATTCACGGGCCCTTA TAAGGGCCCGTAATTGCGCCG 639 CGCCAGTTTCGAAGGCAACACGGGCCCTTA TAAGGGCCCGTAATTGCGCCG 638 AGGTGCAAGGCAATACGGGCACCCAA 639 CGCCAGTTTCGATGGCAACCACGA 640 GCTTTACCGCCGAACACAC 641 GTGCTTTACCGCCGACCCCAA 641 GTGCTTTACCGCCGACACCCAA 642 CAGTCCGTGCCTTCATGCCCC 643 TACGCCTAAGAGCCACCCCAAAACCTGCCC 644 GGCGAGTTCTCATGTCCTCA TGAGGACATGAACCGCCAACACAC 645 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAACTGGCG 646 GCCGTAAGAGCCTACCCTCGCC CGCGAGGGTAGAGCTCTTCCCTCAAGCACC 647 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAACCGCACGGACTG 648 GGCGTTTGAGGGCAACTGTGT ACACACTGCCCCAACAGACTCGCC 649 CCCAAAGCGAACGCGACCGTGCAATTTA AACACACCTCCCCCAAAGACTCGCC 641 CAAACCGAAGCGAGCCTTCCCACGAAC GTTCGGCTTCCCTTCC	10	621	CATTAGCCCGCTGTCGGTAACTGT	ACAGTTACCGACAGCGGGCTAATG
624 CATGATCCTCTGTTTCACCCGCGG CCGCGGGTGAAACAGAGGATCATG 625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATGGCATCACT 627 TATGGAAAGGGCAACAGCGCTATC GATAGCGGCTGTTGCCCTTTCCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACCGCGGTTACAG CTGTAACCGCGTGGTTCGGGCCTG 631 GGCGCAATGGCCGAACAATACTACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACAATACTACTA TAGTATTTATGCGCCCATTGCGCC 633 GATGGTGGACCCTTCCGC GCGGAAGGGCTCCACGTCGCC 634 CCGCGCATAGCGCCATCCCGC 635 TCTTCTGGCTGCGGCACCCGAA TCCGCCTATTGCGCCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TCCGCCTATTGCGCCAGCAGCAGCAGCAAGAA 636 GCGTTCGCAATTCACGGCCCTTA TAAGGGCCCGTAATTGCGCAGG 637 TCGTTTCGGCTGGCACCCGAA TTCGGCTGGACCGCAACGA 638 AGGTGCAAGTGCAAGGCCAATACGGCCATCCAAGCCAACGA 639 CGCCAGTTTCGACGGCACCCGAA 639 CGCCAGTTTCGACGGCACCCGAA 640 GCTTTACCGCCGATCCAGATATC 640 GCTTTACCGCCGATCCAGATATC 641 GTGCTTGACGAGAGACGCAAAATAC 642 CAGTCCGTGCGCTTCCAGATATC 643 TACCGGTACAGACGCCAGAATGT 644 GGCGAGTTCTCCACGAC 645 TACCCGTACAGACCCCCGCA 646 GCCCAGTTCTGGGCGGACCCCCGAA 647 AAATCCGCGATCCCAGATTTA 648 GCCGTAGGTTGCCTTTAT 648 GCCTTCGCCTTTCCCCCTCGCG 649 TGTAGAGGCCCCGTACCAATTTAG 649 TGTAGAGGCCCCGGAACCCCGCAATTTAG 640 GCCTAGGTTGCCCCCCGAACCCGCACCGCACCCGACCCCGCACCCGACCCCGACCCCGCACCCGCACCCGCACCCGCACCCCCC		622	GGAAAGAAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
625 GGCGTAGCGCTCTAAAAGCTTCGG CCGAAGCTTTTAGAGCGCTACGCC 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATGCCATCACT 627 TATGGAAAGGGCAACAGCGCTATC GATAGCGCTGATGCCATTCCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGTTCGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGCATGTAGCCCATTGCGCC 633 GATGGTGGACCTTCCGC GCGAAGGGCTCCAGTCACACAC 634 CCGCGCATAGCGCATATAGGGGAGA TCTCCCCTATTGCGCCATC 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGACAGCCAGAGA 636 GCGTTCGGAATTCACGGGCCCTTA TAAGGGCCCGTAATTGCGCCG 637 TCGTTTCGGCCTGCGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 638 AGGTGCAATTCACGGGCCCTTA TAAGGGCCCGTAATTGCGCCG 639 CGCCAGTTTCGACGAGCCCTTA TAAGGGCCCGTAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGACGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGCGGGTAAAGC 641 GTGCTTGACGAAGAGAGCGAAATGT ACATTTCGGCTTTTGTCACCT 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCAGCAC 643 TACGCGTAAGAGCCTACCCTCGCC CGCGAGGGTAGGCCTCTTACGCCT 644 GGCGATCTTGTGGGGGACATGTGT ACACATGTCCCCCACAAGACTCGCC 645 CCAAAGCGAAGAGGCGACATGTGT ACACATGTCCCCCACAAGACTCGCC 646 GCCGTTAGGTTGCTCTCACCAGACC 647 AAATCCGCGATGTCCTTCACCGAAC GTTCGGTGAAGACCTTCGCCT 648 GGCGTTGGTTGCCTTCACCGAAC GTTCGGTGAAGACCTTCGCGGAAACCTACGGC 649 TGTAGAGTCCCCCGTACCATTTAA CACACTGTCCCCCACAAGACTCACGCC 649 TGTAGAGTCCCACGTACCATTTAA CACCACGCTCACCTCCCGGAATTT 648 GGCTTCGCACCCGTACCATTTAA CACCCCTACCGGGACATCACGGC 649 TGTAGAGTCCCCCGTACCATTTAACCGCCTTACCTCCCCCACAAGACTTCACACGC 649 TGTAGAGTCCCACGTACCATTTAACACCCCCCACAACCTTACGGCACATCCCCCCACAAGCCCACACACCTACGGCACATCGCGCGAATTTAACACGCCTTGCCTTGCCTTTCACACGACC 649 TGTAGAGTCCCCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGAC 650 CACTAGCTTGGGGGCAAATGAATT AATGCACCTTGCCCCAGACATACAC 651 TGTACTCGGCACAGGCACATTAGATT AATGCACCTTGCCCCAGACATACAC 652 CACTAGCTTGGGGGCAAATGAATT AATGCACCTTGCCCCAGACATACACAC 653 TGTACTCGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGA		623	CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
15 626 AGTGATGCCATCAGGCCCGTATAC GTATACGGGCCTGATGGCATCACT 627 TATGGAAAGGGCAACAGCGCTATC GATAGCGCTGATGCCCTTTCCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGATCCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGAGTTCGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACCCCTTCCGC GCGGAAGGGCTCCAGTCCACATC 634 CCGCGCATAGCGCATAGGGCAGA TCTCCCCTATTGCGCCATC 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCGCACATCGCGCAGTTCCAGCATCAGCCCATCAGCCCATCAGCCCAATCAGCGCAATTCAGGGCAATTCACGGGCCCTTAACAGCCCGAACGACAGAAGAA 636 GCGTTCGCAATTCACGGCCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAAGAGATATCG CGATACTCTCCAAGCCCAAACGA 638 AGGTGCAAGTGCAAGGCGAAGAGC CCCTCGCCTTGCACTTGCACCTC 639 CGCCAGTTTCGAGGCGAACGACGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCAGAGGCGAAATGT AAACGTCAGCCAAACCAC 640 GCTTTACCGCCGATCCCAGATATC GATATCGGCGGATCAGCAC 641 GTGCTTGACGAAGAGGCAAATGT ACATTTCGCCTTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCGAACGA 644 GGCGAGTCTTCATGTCCTCA TGAGGACATGAAGCGCGAAGCAC 645 CCAAAGCGAAGGCGACTGTT AACACTCCCCCACAAGACTCGCC 646 GCCGTAGGTTGCTCTCAC TGAGGACATGAAGCGCCACGGACTG 647 AAATCCGCGATGCCGTGTCTAT ATAGACACCGCCTTCGCTTTGGCTTTGG 648 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCACCACACCGCC 647 AAATCCGCGATGCCGTGCCTTTCACCGAAC 648 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGGCACTCACGGC 649 TGTAGAGTCCCACCGTACCAATTTAG CTAAATTGGTACGGGGAACCTACAGGC 649 TGTAGAGTCCCACCGTACCAATTTAG CTAAATTGGTACGGGGAACCTACAG 650 CACTAGTCTGGGGCAAAGAGTT AATGCCGCTACGTGGGAACCC 651 TGTACCGGCGAAGGGCAATAGATT AATGCACCTTGCCCCAGAACACC 652 CACTAGTTGGGGGCAAGGTGCAATTAAATTGGAACACCCTCGCGGAACTGAAACCGCCAAGACTCACAGGCAACACCTACGGCAACACCACACACCGCAACACCCCGTACCAAGACTCACAGACTACACACAC		624	CATGATCCTCTGTTTCACCCGCGG	CCGCGGGTGAAACAGAGGATCATG
627 TATGGAAAGGGCAACAGCGCTATC GATAGCGCTGTTGCCCTTTCCATA 628 CTGTGGTTGATGGAGGATCCACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCGGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTGGAGCCCTTCCGC GCGGAAGGGCTCCAGTCCACATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTATGCGCG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGCCCGTGAATTGCGCGG 637 TCGTTTCGGCTGTCAGGGCCCTTA TAAGGCCCGTGAATTGCACACG 638 AGGTGCAAGTGCAAGGCGAAGGC 639 CGCCAGTTTCGACGTTA TAACGTCACGCCTTACACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACGA 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGCTGCAGCAC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTTTTCGTCACCT 642 CAGTCCGTGCGTTCATGTCCTCA TGAGGACATGAAGCAC 643 TACGCGTAAGAGCCAACGTTA ACACTTCGCCTTTCGCTTTAGCACT 644 GGCGAGTCTTGTGGGGACATGTT ACACATGACGCCACAGCACC 645 CCAAAGCGAAGCCTACCCTCGCG CCGCAGGGTAGGCTCTTACGCTTAG 646 GCCGTAGGTTCATGTCCTCA TGAGGACATGAAGCCCACAGACTCGCC 647 AAATCCGCGAAGCGACGTGTCTAT ATAGACCACGCTCGCTTTAGCCT 648 GCCGTAGGTTGCTCTAA ATAGACCACGCTCGCTTTCGCT 649 TGTAGAGTCCCACAATTTAG CTCAATTGGTACGGGAACCTACCGC 649 TGTAGAGTCCCACAATTTAG CTAAATTGGTACGGGAACCTACACGC 649 TGTAGAGTCCCACAATTTAG CTAAATTGGTACGGGGAACCTACAC 650 CACTAGTCTGGGGCAAAGGTACAATTAAATGCACCTTGCCCCAGAACACCACACACA		625	GGCGTAGCGCTCTAAAAGCTTC.GG	CCGAAGCTTTTAGAGCGCTACGCC
628 CTGTGGTTGATGGAGGATCCACAC GTGTGGATCCTCCATCAACCACAG 629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGTTCGGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTGCACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCCATC 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGACAGCCAGACGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGA 637 TCGTTTCGGCCTTGGAGAGTATCC CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGTTCATGTCCTCA TGAGGACATGAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGGCGACATGTT ACACATGTCCCCACAAGACTCGCC 646 GCCGTAGGTTGCTCTACCCTCACGC TGCGAGGGTACGCCTTTCGCTTTAGCGTT 647 AAATCCGCGATGCCAATATC TAAGACACGCTCGCTTTCGCTTTGG 648 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGACCTACGGC 649 TGTAGAGTCCCACGTACCATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGGACACCTACAC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGGACCTCACA 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGGACCTCACA 650 CACTAGTCTGGGGCAAAGGTT AATGCCCCCCAGACACTCACA 651 TGTACTCGGCAGCGCGCAT ATGCCGGCTACCTTGCCCCACAGACTCTACA 650 CACTAGTCTGGGGCAAATGATT AATGCCCCTGCCCAGACTACACA 651 TGTACTCGGCAGCGCAATAGATT AATCCACTTGCCCCACAGACTACTACACACACACTACGGCAACTACACACAC	15	626	AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
629 ACTCGCTGGAATTTGCGCTGACAC GTGTCAGCGCAAATTCCAGCGAGT 630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCGGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTGCAGCCCTTCCGC GCGGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTAGCGCGAGGCCATTGCGCG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCC CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTGCCTTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGCCTTCGACTTGCACCT 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCCGACCTGTTA ATAGACACGCTCGCTTTCGCCTTTCGC 646 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCACCTACGGC 647 AAATCCGCGATGTGCCTTCACCGAAC GTTCGGTGAAGAGCACCTACGGC 648 GGCTTCGCACCGTACCATTTAG CTAAATTGGTACGGGTGCGAATCT 648 GGCTTCGCACCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAATGATT AATGCACCTTGCCCCAGAACTGACAC 650 CACTAGTCTGGGGCAAATGATT AATGCACCTTTGCCCCAGAACTGAGACCCACACACACCCTTCACACACA		627	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA
630 CAGGCCCGAACCACGCGGTTACAG CTGTAACCGCGTGGTTCGGGCCTG 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTGGAGCCCTTCCGC GCGGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTATGCGCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACCTT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGACGCACGAACCG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAACTGT ACACATGTCCCCACAAGACTCGCC 646 GCCGTAGGTTGCTCTAT ATAGACACCGTCGCTTCGCTT		628	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
20 631 GGCGCAATGGGCGCATAAATACTA TAGTATTTATGCGCCCATTGCGCC 632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGAGCGCGAATTGACC 633 GATGGTGGACTGGAGCCCCTTCCGC GCGGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCCTATTGCGCTATGCGCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TCGGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACCTT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGAATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGAACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGGACATGTT ACACATGTCCCCACAAGACTCGCC 646 GCCGTAGGTTGCTCTATCACCGAAC GTTCGGTTAGGCTTTGG 647 AAATCCGCGATGTGCCTTCACCGAAC GTTCGGTGAAGAGCAACCTACCGC 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACCGGGAACCTACCGGC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACCGGGACTCTACA 650 CACTAGTCTGGGGCAAAGGTT AATGCACCTTGCCCCAGAACCT 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACCGGGACTCTACA 650 CACTAGTCTGGGGCAAAGGTT AATGCACCTTGCCCCAGAACTACAC 651 TGTACTCGGCAGGCGCAAATGATT AATGCACCTTGCCCCCAGACTACCA		629	ACTCGCTGGAATTTGCGCTGACAC	GTGTCAGCGCAAATTCCAGCGAGT
632 GGTCAATTCGCGCTACATGCCCTA TAGGGCATGTAGCGCGAATTGACC 633 GATGGTGGACTCGAGCCCTTCCGC GCGGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTATGCGCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGG GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCCCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAAGCCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCCGACCTGTTA ATAGACACGCTCGCTTTCGCTTTGG 646 GCCGTAGGTTGCTCTATTAGACACCGCTCGCTTCGCTTTGG 647 AAATCCGCGATGTCCCTCAAACACCTCCCCACAAGACCTACGGC 648 GGCTTCGCCCTTCACCTTCACCGAAC GTTCGGTGAAGAGCACCTACGGC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGGACTCTACA 650 CACTAGTCTGGGGCAAATGGTT AATGCCGCTACCTGGGACTTACA 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCCCCTGCCGAGTTACA		630	CAGGCCCGAACCACGCGGTTACAG	CTGTAACCGCGTGGTTCGGGCCTG
633 GATGGTGGACTGGAGCCCTTCCGC GCGGAAGGGCTCCAGTCCACCATC 634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTATGCGCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTGTCCAACGCGAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTTCGTTTGG 35 646 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCCACCTCGGC 647 AAATCCGCGATGTGCCGTGAGGCT AGCCTCACGGCACATCGGCG 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCAAGCC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTACCAATTTAG CTAAATTGGTACGGGACTCTACA 650 CACTAGTCTGGGGCAAAGATT AATCCACTTGCCCCAGAACTCACAC 651 TGTACTCGGCAGGCGCAAATGATT AATCCACTTGCCCCAGACTACGTG 40 651 TGTACTCGGCAGCGCAAATGATT AATCCACTTGCCCCAGACTACGTG	20	631	GGCGCAATGGGCGCATAAATACTA	TAGTATTTATGCGCCCATTGCGCC
634 CCGCGCATAGCGCAATAGGGGAGA TCTCCCCTATTGCGCTATGCGCGG 635 TCTTCTGGCTGTCCGGCACCCGAA TTCGGGTGCCGGACAGCCAGAAGA 25 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGACACTGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTTCGTTTGG 35 646 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCAACCTACGGC 647 AAATCCGCGATGTGCCGTGAGGCT AGCCTCACGGCACATCGCGATTT 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTACTACA 650 CACTAGTCTGGGGCAAATAGATT AATGCACCTTGCCCCAGACTACTACA 651 TGTACTCGGCAGGCGCAAATAGATT AATCTATTGCGCCTGCCGAGCTACA		632	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
25 636 GCGTTCGCAATTCACGGCCCTTA TAAGGCCCGGACAGCCAGAAGA 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		633	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
25 636 GCGTTCGCAATTCACGGGCCCTTA TAAGGGCCCGTGAATTGCGAACGC 637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTTCGCTTTGG 646 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCAACCTACGGC 647 AAATCCGCGATGTGCCGTGAGGCT AGCCTCACGGCACATCGCGGATTT 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATGCACCTTGCCCCAGACTACAC		634	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
637 TCGTTTCGGCCTTGGAGAGTATCG CGATACTCTCCAAGGCCGAAACGA 638 AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		635	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
AGGTGCAAGTGCAAGGCGAGAGGC GCCTCTCGCCTTGCACTTGCACCT 639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT	25	636	GCGTTCGCAATTCACGGGCCCTTA	TAAGGGCCCGTGAATTGCGAACGC
639 CGCCAGTTTCGATGGCTGACGTTT AAACGTCAGCCATCGAAACTGGCG 640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC  641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		637	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
640 GCTTTACCGCCGATCCCAGATATC GATATCTGGGATCGGCGGTAAAGC 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		638	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACTTGCACCT
30 641 GTGCTTGACGAAGAGGCGAAATGT ACATTTCGCCTCTTCGTCAAGCAC 642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		639	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAAACTGGCG
642 CAGTCCGTGCGCTTCATGTCCTCA TGAGGACATGAAGCGCACGGACTG 643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		640	GCTTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
643 TACGCGTAAGAGCCTACCCTCGCG CGCGAGGGTAGGCTCTTACGCGTA 644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT	30	641	GTGCTTGACGAAGAGGCGAAATGT	ACATTTCGCCTCTTCGTCAAGCAC
644 GGCGAGTCTTGTGGGGACATGTGT ACACATGTCCCCACAAGACTCGCC 645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		642	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
645 CCAAAGCGAAGCGAGCGTGTCTAT ATAGACACGCTCGCTTCGCT		643	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
35 646 GCCGTAGGTTGCTCTTCACCGAAC GTTCGGTGAAGAGCAACCTACGGC 647 AAATCCGCGATGTGCCGTGAGGCT AGCCTCACGGCACATCGCGGATTT 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA		644	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAAGACTCGCC
647 AAATCCGCGATGTGCCGTGAGGCT AGCCTCACGGCACATCGCGGATTT 648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA		645	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTCGCTTTGG
648 GGCTTCGCACCCGTACCAATTTAG CTAAATTGGTACGGGTGCGAAGCC 649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA	35	646	GCCGTAGGTTGCTCTTCACCGAAC	GTTCGGTGAAGAGCAACCTACGGC
649 TGTAGAGTCCCACGTAGCCGGCAT ATGCCGGCTACGTGGGACTCTACA 650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA		647	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
650 CACTAGTCTGGGGCAAGGTGCATT AATGCACCTTGCCCCAGACTAGTG 40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA		648	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
40 651 TGTACTCGGCAGGCGCAATAGATT AATCTATTGCGCCTGCCGAGTACA		649	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
		650	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
652 AACGGGTATCGGAAGCGTAAAAGC GCTTTTACGCTTCCGATACCCGTT	40	651	TGTACTCGGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
		652	AACGGGTATCGGAAGCGTAAAAGC	GCTTTTACGCTTCCGATACCCGTT

	653	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG
	654	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
	655	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
	656	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
5	657	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
	658	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
	659	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
	660	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
	661	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
10	662	TTGCTCTTATCCTTGTCCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
	663	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTTAA
	664	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
	665	GCTCGATTTCACGGCCCGTTGTTC	GAACAACGGGCCGTGAAATCGAGC
	666	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
15	667	TGGAGGTGAGGACGACGTGCACTA	TAGTGCACGTCGTCCTCACCTCCA
	668	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT
	669	TATGATCGCTCGGCTCACAGTTTG	CAAACTGTGAGCCGAGCGATCATA
	670	GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
	671	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
20	672	CTATGGTTTGCACTGCGCCGTCGA	TCGACGCCCAGTGCAAACCATAG
	673	AGCAGGGAAATTCAATCGTTCGCA	TGCGAACGATTGAATTTCCCTGCT
	674	CCTAACCGAGCGCTTAGCATTTCC	GGAAATGCTAAGCGCTCGGTTAGG
	675	CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
	676	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
25	677	GATGCTCGCCGTGTTTAGTTCACG	CGTGAACTAAACACGGCGAGCATC
	678	TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
	679	ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAGTAGACCGCAT
	680	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
	681	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
30	682	GTGACCGCGAACTTGTTCCGACAG	CTGTCGGAACAAGTTCGCGGTCAC
	683	TGCGGATTACCGATTCGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
	684	TGATAGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
	685	TCGCTCCGTAGCGATTCATCGTAG	CTACGATGAATCGCTACGGAGCGA
	686	TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
35	687	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
	688	TCACTCAGCGCTGTGACTGCCTGA	TCAGGCAGTCACAGCGCTGAGTGA
	689	GTTTGCGCTATAGTGGGGGACCGT	ACGGTCCCCCACTATAGCGCAAAC
	690	GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
	691	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
40	692	AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
	693	TCAAATGGCCACCGCGTGTCATTC	GAATGACACGCGGTGGCCATTTGA

	694	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
	695	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
	696	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
	697	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
5	698	GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAAACTCTGTGGC
	699	CCCACGCTTTCCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
	700	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
	701	AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT
	702	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
10	703	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
	704	GGTGTTCGGCCTAAACTCTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
	705	TTTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
	706	CACACGTTTCCGACCAGCCTGAAC	GTTCAGGCTGGTCGGAAACGTGTG
	707	CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
15	708	TTCACAATCCGCCGAAAACTGACC	GGTCAGTTTTCGGCGGATTGTGAA
	709	AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT
	710	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
	711	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
	712	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
20	713	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
	714	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
	715	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
	716	CTGAATCGCGCAAGTAAATGGGGG	CCCCATTTACTTGCGCGATTCAG
	717	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
25	718	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
	719	GGTAACCTGGGTGCTTGCAGGTTA	TAACCTGCAAGCACCCAGGTTACC
	720	ATCGGAGCCACCATTCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
	721	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTCAC
	722	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
30	723	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
	724	AGTAGTGGTCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
	725	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
	726	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
	727	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCG
35	728	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTCGGGAATCACTGCGA
	. 729	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCCTCGAGTGGACTCGCCTTG
	730	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
	731	TCCGAGCTTGACGTTCGCGACGTC	GACGTCGCGAACGTCAAGCTCGGA
	732	AGCGCTGGGCTGTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
40	733	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
	734	CGAACCGCTAATGCCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG

	735	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCCACCTTCCGTG
	736	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
	738	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
5	739	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA
	740	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
	741	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
	742	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
	743	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTCGCACGGTTTCAG
10	744	CGGTGTTCCGCGTGTCGAAAAAAT	ATTTTTCGACACGCGGAACACCG
	745	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAAGGCCTGCTAGA
	746	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
	747	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
	748	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCTTTCAGGTTTCATCCGC
.15	749	GGGGCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
	750	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
	751	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
	<b>752</b> .	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
	753	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTCATGTTCATCGT
20	754	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
	755	GTGCCGTATTTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
	756	GCAGTGCGCACTTCAGTTCAAAAG	CTTTTGAACTGAAGTGCGCACTGC
	757	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAAATCGC
	758	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTCACCTA
25	759	CTGGATACCTTGCCTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG
	760	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG
	761	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC
	762	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCCAGGCCGCTTACAGAAA
	763	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
30	764	TCTTGGCCTCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA
	765	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
	766	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
	767	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG
	768	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA
35	769	ATAGGTAGGATGTGCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
	770	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
	771	CTGGCTGTGTCGCATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG
	772	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG
	773	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA
40	774	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCGTCCTCCTGCT
	775	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA

_			<u>, , , , , , , , , , , , , , , , , , , </u>
	776	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
	777	TACATTCCCTGCCTCCGTGGGCTT	AAGCCCACGGAGGCAGGGAATGTA
[	778	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACGCGAAGCG
	779	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTCGACGCGTCCGA
5	780	TCTGAGCAGGCCAGCGCTCCAGCT	AGCTGGAGCGCTGGCCTCAGA
	781	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA
	782	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAACT
	783	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
Ī	784	GGAGCGAAGACTTCGTCTGCCCAA	TTGGGCAGACGAAGTCTTCGCTCC
10	785	ATTGGCCGAGGGTGAATGCAGCCT	AGGCTGCATTCACCCTCGGCCAAT
	786	TGATCCATCCGAATGCTTTTCCAT	ATGGAAAAGCATTCGGATGGATCA
Ī	787	GCACACAGTTGTCTTGGCCCATGA	TCATGGGCCAAGACAACTGTGTGC
	788	CTGGCGGGCAGTGGAAAAAACAAC	GTTGTTTTTCCACTGCCCGCCAG
	789	ATCTCCATGCGTAAGACTGCTCCG	CGGAGCAGTCTTACGCATGGAGAT
15	790	TCTCCTCTCGTCGCAGTTCGTGGA	TCCACGACTGCGACGAGAGGAGA
Ī	791	TAGCGTATTCACTCTTGCCGAGCA	TGCTCGGCAAGAGTGAATACGCTA
	792	CAATCAAAAGCCACGGCGCGATGG	CCATCGCGCCGTGGCTTTTGATTG
	793	AGCGTCACGGAATTCAGCAGATCT	AGATCTGCTGAATTCCGTGACGCT
	794	GACTCCCTGTTAATGCGCCCAAGG	CCTTGGGCGCATTAACAGGGAGTC
20	795	TAGGCACTGCCGGTTCAGATTCAA	TTGAATCTGAACCGGCAGTGCCTA
	796	AACAGGGTGATAACGGTGGCCAAT	ATTGGCCACCGTTATCACCCTGTT
	797	CGTGCGTACCATGTGTAAGTGCGT	ACGCACTTACACATGGTACGCACG
	798	GACCAATTCTACTTCGGCAGCCCA	TGGGCTGCCGAAGTAGAATTGGTC
	799	ATCGGACCGATTTGCTTTTGGCTG	CAGCCAAAAGCAAATCGGTCCGAT
25	800	TCCGCCGAAGCACACGCTTATTCG	CGAATAAGCGTGTGCTTCGGCGGA
	801	AACGGTACGCATTGTGAGCAGTGT	ACACTGCTCACAATGCGTACCGTT
	802	TGGCGACTACTGTTCCCCTGAATC	GATTCAGGGGAACAGTAGTCGCCA
	803	CAGAGGGGACAGCCGTATGCCTTA	TAAGGCATACGGCTGTCCCCTCTG
	804	CGGTGGTTTTATCGGAATCTGCGA	TCGCAGATTCCGATAAAACCACCG
30	805	TTGGCCTCCGACCTCACGACATAT	ATATGTCGTGAGGTCGGAGGCCAA
	806	CGTTTCGCTAGCATCTGGCGCCGA	TCGGCGCCAGATGCTAGCGAAACG
	807	ACTAAGCGGTGGAGCCGGTGGATG	CATCCACCGGCTCCACCGCTTAGT
	808	ATATTGGCTGCGTTTACGGGCCGC	GCGGCCCGTAAACGCAGCCAATAT
	809	CCGCTATGGTGGCAATCCCGATAC	GTATCGGGATTGCCACCATAGCGG
35	810	GTTGCATGTGGCTCAGGCGGCATA	TATGCCGCCTGAGCCACATGCAAC
	. 811	ATTCTGGGGAGTGACCCAGGGCTT	AAGCCCTGGGTCACTCCCCAGAAT
	812	CTCTCCAAGGAGACGAGCCAATGT	ACATTGGCTCGTCTCCTTGGAGAG
	813	GAAAGGACGGGATTTGGGGGCTAA	TTAGCCCCAAATCCCGTCCTTTC
	814	TATGTAGTACCTTGGCTCGCGCCA	TGGCGCGAGCCAAGGTACTACATA
40	815	TCCCTTTCGATGAGCGGCTGTACT	AGTACAGCCGCTCATCGAAAGGGA
	816	TAGATCGGGCAGAGCCCGTATCTT	AAGATACGGGCTCTGCCCGATCTA
· ·		· ····	

	817	GGAATGCTTTAGGCTGCCGAGCTG	CAGCTCGGCAGCCTAAAGCATTCC
	818	ATGGTAGCAACATTCAACGCCAGG	CCTGGCGTTGAATGTTGCTACCAT
Ī	819	CTATGAAACGTGTGGCCCAGCAAC	GTTGCTGGGCCACACGTTTCATAG
	820	ATGTTGCTAGTGCCTTTCGGGCCT	AGGCCCGAAAGGCACTAGCAACAT
5	821	CCAATGTGCGCAGACTCAGTCATT	AATGACTGAGTCTGCGCACATTGG
	822	GATAGTGCTCGCAAACGGGCCTTC	GAAGGCCCGTTTGCGAGCACTATC
	823	GCACCCTGTTGCCTCATTGAGCGT	ACGCTCAATGAGGCAACAGGGTGC
	824	GGCGTGAATAGAGTGACCAGGCGG	CCGCCTGGTCACTCTATTCACGCC
	825	ACGTGCCAGCTGCGGGCACTTTAT	ATAAAGTGCCCGCAGCTGGCACGT
10	826	AGTGGAATAGTCGCGTCGTGCCGC	GCGGCACGACGACTATTCCACT
	827	ACTCGCCTATTACCGCTGGATTGG	CCAATCCAGCGGTAATAGGCGAGT
	828	GAGACCGGATTGAGATGATCCCGT	ACGGGATCATCTCAATCCGGTCTC
	829	CTGGCAGTTTACCACCGAACCAGT	ACTGGTTCGGTGGTAAACTGCCAG
	830	TTACATTGCCGATTTCGCATGTGA	TCACATGCGAAATCGGCAATGTAA
15	831	TAAAACTGAAGGGTCGCCTCAGCA	TGCTGAGGCGACCCTTCAGTTTTA
	832	GGCTTCGCATGCCTTTGCAACATT	AATGTTGCAAAGGCATGCGAAGCC
	833	AAGACCGAAGGTCTCTCTGAGGGC	GCCCTCAGAGAGACCTTCGGTCTT
	834	GCCTATGGCTCCAGCTCAGCAGTA	TACTGCTGAGCTGGAGCCATAGGC
	835	CGTATCATAGCGTTCGGTGGACAA	TTGTCCACCGAACGCTATGATACG
20	836	CATGCGCTCGCACTCTGCCTGTCT	AGACAGGCAGAGTGCGAGCGCATG
	837	TGGGCAATTCGGAAACGTCGGTCT	AGACCGACGTTTCCGAATTGCCCA
	838	TTGCGGAGATGCGACGGTACATTG	CAATGTACCGTCGCATCTCCGCAA
	839	ACTTTCGCACGTCGATCTGGACTG	CAGTCCAGATCGACGTGCGAAAGT
	840	CTAACTGCCGCGGCAAACTGATTA	TAATCAGTTTGCCGCGGCAGTTAG
25	841	GGCCGCGGATTTTATTCCTTGGAT	ATCCAAGGAATAAAATCCGCGGCC
	842	GAATTTGGAACGGTGTTCCGATGA	TCATCGGAACACCGTTCCAAATTC
	843	GTCCATCCATCTACGGCATCAGGA	TCCTGATGCCGTAGATGGATGGAC
	844	TAAACGACCTGGCACATGTGCGTA	TACGCACATGTGCCAGGTCGTTTA
	845	CACCATCCAAGAGCCAATCCTAGG	CCTAGGATTGGCTCTTGGATGGTG
30	846	ACTCATATACGATCAGTCCGCCGC	GCGGCGGACTGATCGTATATGAGT
	847	GTGCCAACCGACGATCAACCGAAC	GTTCGGTTGATCGTCGGTTGGCAC
	848	TGGGGTTCGTACAGGTCGGTTCAT	ATGAACCGACCTGTACGAACCCCA
	849	AACAGTAGAGGCGAGGCCTGCGGG	CCCGCAGGCCTCGCCTCTACTGTT
	850	TGCATCGAATCCGAGATGGATCTT	AAGATCCATCTCGGATTCGATGCA
35	851	GCGTCACGTTATGTCCGCTCTGTC	GACAGAGCGGACATAACGTGACGC
	852	GGGACATGCGTAGCGCAATATCAC	GTGATATTGCGCTACGCATGTCCC
	853	CACACGTCACACCATCCAAAGTGG	CCACTTTGGATGGTGTGACGTGTG
	854	ATGCTCAGGTGCTAAATACGGCCA	TGGCCGTATTTAGCACCTGAGCAT
	855	AAAAATGTTTAGCGCGCTGACTGG	CCAGTCAGCGCGCTAAACATTTTT
40	856	ATAGTCCGTTCCCAACGA	TCGTTGGGAACGGAAACGGACTAT
	857	TCGATCTTCTGGGTTGCAGACCAG	CTGGTCTGCAACCCAGAAGATCGA
		<del></del>	

	858	GTCGGCGCAGCCGATCCTCATGTC	GACATGAGGATCGGCTGCGCCGAC
	859	GTTGCGGGGTGTCGAAAAGGATCT	AGATCCTTTTCGACACCCCGCAAC
	860	ATCTCTTCCTCGGGTGGATGCCAG	CTGGCATCCACCCGAGGAAGAGAT
	861 .	TGATGTGCGTTTCAGCTTTTCGCG	CGCGAAAAGCTGAAACGCACATCA
5	862	GTTAAGGGGTGAGAACATCCGGCC	GGCCGGATGTTCTCACCCCTTAAC
	863	AAGTCGTCTCCCTGCGTCTCC	GGACGAGACGACGACTT
	864	CCGACCTAATAAGGCGCAACAATG	CATTGTTGCGCCTTATTAGGTCGG
ĺ	865	CATCATTGGCACCGTACCAATGCC	GGCATTGGTACGGTGCCAATGATG
1	866	TGGAGAAAGGGAAGTGCAGCAACG	CGTTGCTGCACTTCCCTTTCTCCA
10	867	TGGTACTCCTTGTCATGCCTGCCA	TGGCAGGCATGACAAGGAGTACCA
	868	GGCACAGGTTCTCTTGCAGCGCGG	CCGCGCTGCAAGAGAACCTGTGCC
	869	GAATCTGGGCATTGCTACGAGACC	GGTCTCGTAGCAATGCCCAGATTC
	870	CGAAATGGGAGCGTCCACTACCAC	GTGGTAGTGGACGCTCCCATTTCG
	871	ACATATGAGCTCGCGTGCTTGCAT	ATGCAAGCACGCGAGCTCATATGT
15	872	TCGAGCACGGTCACTGATAAAGCC	GGCTTTATCAGTGACCGTGCTCGA
1	873	GAGGGTCCCTGCTCAGAGTTGGTT	AACCAACTCTGAGCAGGGACCCTC
	874	AAATGCGATCGCCCCTTATGGAAT	ATTCCATAAGGGGCGATCGCATTT
	875	CTACCGAATGGATTGCGGATGGC	GCCATCCGCAATCCATTCGGGTAG
	876	AGGGACTGGCAGGTCTCTGCGCGT	ACGCGCAGAGACCTGCCAGTCCCT
20	877	TAACGATCCATTCCACGAATGCAG	CTGCATTCGTGGAATGGATCGTTA
	878	GGCCGCACGTACGATTACGCCTTG	CAAGGCGTAATCGTACGTGCGGCC
	879	TGGGGAATGCATCAGTTGTTGGCT	AGCCAACAACTGATGCATTCCCCA
•	880	TATCTGGGAGTAGCAGGCAGGGCC	GGCCCTGCCTGCTACTCCCAGATA
	881	CCGAAGGTTTCACGCTCAGGTCGC	GCGACCTGAGCGTGAAACCTTCGG
25	882	GAACCCAGCTGGGACATCCTTCAG	CTGAAGGATGTCCCAGCTGGGTTC
	883	TGCATGCGAGCAAATAACCCGGAC	GTCCGGGTTATTTGCTCGCATGCA
	884	AATTGTCCGCCAAACGCTTTTCAG	CTGAAAAGCGTTTGGCGGACAATT
	885	GTCGGCTTCGAGCGATCGAGTGTG	CACACTCGATCGCTCGAAGCCGAC
	886	TCGCGTGCTCTACGTAGCCCATGA	TCATGGGCTACGTAGAGCACGCGA
30	887	GGCTTCCGCGATAACGTAATTCGC	GCGAATTACGTTATCGCGGAAGCC
	888	TGTAGCCGACTAGGGCCGAAGCCC	GGGCTTCGGCCCTAGTCGGCTACA
	889	AAGCGAACGCCCTGGCTGAATATT	AATATTCAGCCAGGGCGTTCGCTT
	890	TGTCACGCGACGTGCTGCAGATTT	AAATCTGCAGCACGTCGCGTGACA
	891	CCGTGTCCGTGTTGTCGACAGGCG	CGCCTGTCGACAACACGGACACGG
35	892	CCCCACACGTTGCGCCTATATGTG	CACATATAGGCGCAACGTGTGGGG
	893	GGCGGCACAACTCAACACAGATG	CATCTGTGTGAGTTGTGCCCGCC
	894	CGACTGCGGGATCACCGGTGATTA	TAATCACCGGTGATCCCGCAGTCG
i	895	TCGGGACATGACCGGTACGGAGTC	GACTCCGTACCGGTCATGTCCCGA
	896	TACCTCGAGTGGCCGTTGATCGGG	CCCGATCAACGGCCACTCGAGGTA
40	897	TAATTCATGGGGCTAGCCGAACCA	TGGTTCGGCTAGCCCCATGAATTA
	898	ACACTCTAAGCCGATTCCGTTCGA	TCGAACGGAATCGGCTTAGAGTGT

	899	GTGGGCGTGAGTGACACGCACAAA	TTTGTGCGTGTCACTCACGCCCAC
	900	ACGACTCCTCGGGCAAAGTACGTA	TACGTACTTTGCCCGAGGAGTCGT
	901	TGTGGTCATGGCGCTACTGTTTTC	GAAAACAGTAGCGCCATGACCACA
	902	CTTTCGCTAGCCAGAGCGGGTTCC	GGAACCCGCTCTGGCTAGCGAAAG
5	903	ACAGGCGTGTTAGCGTGTGACAA	TTGTCACACGCTAACACGCCCTGT
	904	GGTACTTCCGGCGTATCGGGCCAC	GTGGCCCGATACGCCGGAAGTACC
	905	GTGGGTTTTGTTCACCCTTCTGGG	CCCAGAAGGGTGAACAAAACCCAC
	906	ACGCAATTCCGCATTACTTACCCG	CGGGTAAGTAATGCGGAATTGCGT
	907	CGCCTCGACTGCGGTCAAGCACAA	TTGTGCTTGACCGCAGTCGAGGCG
10	908	GTGAAATGGATCCAGAGAGGGCCA	TGGCCCTCTCTGGATCCATTTCAC
	909	TATAAACGCTGCAGGGCTCCGTTA	TAACGGAGCCCTGCAGCGTTTATA
	910	GTTATTCAGGCGGCTTGTAACGGG	CCCGTTACAAGCCGCCTGAATAAC
	911	GGGTTCTAGCGTGCGCGTTCAGTT	AACTGAACGCGCACGCTAGAACCC
,	912	TTGGGCTCGAGCGGTACACCACTA	TAGTGGTGTACCGCTCGAGCCCAA
.15	913	CCGTCTTCAGGACAACGGTATGCG	CGCATACCGTTGTCCTGAAGACGG
	914	GGACCCTTTGACAGATTGCGGCAC	GTGCCGCAATCTGTCAAAGGGTCC
	915	TAAATTTTATCGCCAGGCGCGCT	AGCGCCGCCTGGCGATAAAATTTA
	916	GCCGAACGCAAGATCGCTTGAACT	AGTTCAAGCGATCTTGCGTTCGGC
	917	TAGGCCATTGGTGCCCTAAGACGG	CCGTCTTAGGGCACCAATGGCCTA
20	918	CAAACCACAGCTTACAGGCTGCGT	ACGCAGCCTGTAAGCTGTGGTTTG
	919	TAAACGGAGACTGGCACGGTAGCA	TGCTACCGTGCCAGTCTCCGTTTA
	920	TAGCGCGCATCACACTTGGAATCG	CGATTCCAAGTGTGATGCGCGCTA
	921	TGCTGACACAAACGAGCCGTTTCG	CGAAACGGCTCGTTTGTGTCAGCA
	922	CGCTTAACGGCATTGACTGTCCAC	GTGGACAGTCAATGCCGTTAAGCG
25	923	TTCCACGGCCGTGTATTACGGATA	TATCCGTAATACACGGCCGTGGAA
	924	TTTATGCCGTTGCCGAGGAAGACT	AGTCTTCCTCGGCAACGGCATAAA
	925	AGTGCCGAGATAGGGGACTGGGCG	CGCCCAGTCCCCTATCTCGGCACT
	926	CTAGTCTCCACGCCCTCGGGACGA	TCGTCCCGAGGGCGTGGAGACTAG
	927	CCGCCATTCGGAAGATGGATGATG	CATCATCCATCTTCCGAATGGCGG
30	928	TGACGGTGAAAGTCGATTGCGAAG	CTTCGCAATCGACTTTCACCGTCA
	929	ATATGCGTCACCACCCGGTTCCGA	TCGGAACCGGGTGGTGACGCATAT
	930	CCATCAGTGAAGGGGTTGCTGCCA	TGGCAGCAACCCCTTCACTGATGG
	931	CATATGTGCTTGGCTTGCGATGAC	GTCATCGCAAGCCAAGCACATATG
	932	TCTGCTTTGGAAGCCTGAACTGCT	AGCAGTTCAGGCTTCCAAAGCAGA
35	933	CGATTTGGTCAAGAAGGCGGAAAT	ATTTCCGCCTTCTTGACCAAATCG
	934	ATCAGAGGCCTTCCCGCCTCGTTA	TAACGAGGCGGGAAGGCCTCTGAT
	935	ATTGTTGTCGTTGCCACATCGCAG	CTGCGATGTGGCAACGACAACAAT
	936	TGAAATGTGTCTGGACGCGAGTCT	AGACTCGCGTCCAGACACATTTCA
	937	GCGGCGATGCTCCTTAAAGGGTA	TACCCTTTAAGGAGCATCGCCCGC
40	938	CCGCAATCTCCATGCGTCGACCGT	ACGGTCGACGCATGGAGATTGCGG
	939	TGCCGCGTAATCACCTGGAACTTG	CAAGTTCCAGGTGATTACGCGGCA

940				
942 GCTTGAACCTCGAGGCGATGTTCT AGAACATCGCCTCGAGGTTCAAGC 943 CAAGCGTGGAAGTACGACCCGCCA TGGCGGGTCGTACTTCCACGCTTG 944 GTGTGCACTGGATCCGAGCCCTAG CTAGGGGTCGATCCCAGTGCACCAG 945 TCCCTGGGCTAGCATTGCGAGGGTT AACCTCGCAATGCCAGTGCACCAG 946 AGAACCAAAGACGCTTGTTTGCCG CGGCAAACAAGCGTCTTTGGTTCT 947 CGTCACATGCAATGCATTCCCTCC GGGCAAACAAGCGTCTTTGGTTCT 948 TGACCGCATGTGATATCAGTCGCT AGCACTCAATACACATGCGGTCA 948 TGACCGCATGTGATATCAGTCGCT AGCACTCAATACACATGCGGTCA 949 GCGGGCCCAATGAGTATCCCTCCAT ATGACGGATCATACACACTGCGGTCA 950 TAGTGACTGTGAACGCCCTGGTT AACCAGGGGCGTTCACAGTCACTA 951 GCGCACCTCTCCCGCGCGCGTATATC 952 TCGATGCAGTTTTTCCCGTCAA TTGACGGGCGGAAAACACAGCGTCCC 953 ACCCCCTGGGGTTTCCCCATTTTTT AAAATGGCGAAAACACCCACGGGGT 15 954 CTACACGCGCAGTTTGTGCCATTTTTT AAAATGGCGAAACCCCACGGGGT 955 CGCAGCCAGCTCTCTCTCGGAGC GGCTCAACATCACACTGCCCGTGTACA 956 CGCACCCAGCACTCATCACAACTCC GGCTTTTTAGGAGTGCTGCAG 957 ACGCCCAGCACTCATCACTACAACTC 957 ACGCCCAGCACTCATCACAACTC 958 CGCAACCAAGATGAGATTGGAACCACAAGATGAGGTCCCTGCG 958 CGCAACCTACCAACACCACAG CTGCTTTTAGGAGCGCGGTC 958 CGCAACCTACTACTACACTACAATCT AGATTGAGTAGAGTGCGCGGTC 950 TCGTTGGGCAAAACCACA TCAAGTCACAACTGCCCTGGTAC 950 TCGTTGGGCAAACACCAG CTGCTTTTGCCACAGGAAGTTGCC 950 TCGTTGGGCAAACCCAG CTGCTTTTCCCGT ACGAGAATTGAGACGCGGGTCC 950 TCGTTGGGCAAACCCAACTCCA TCAAGTCCTCACACACA 960 CCCCTTGTAATTGCCATTCTCCGT ACGAGAAATGAGAATTCACAACGG 961 GTAACCAGGGGAATCTGGGGCCAGTACC 962 AGCGCAAGATCTGCCTGGCTTGC CACAGCCCAGGAACTTCCCGGTTAC 963 GCGTACATCATCACTACCACACAC 964 GTAACCAGGGGAATCTGCC 965 CCTATGCAATGAGCCAACCCAAC 965 CCTATGCAATGAACCCAC 966 CCCCCTGCATCACTCCCCGGCTTGC 967 GCCCCCAAGAACTCCACCCCAGAACTCCCCCAAGACTCCCCCAAGACTCCCCCAAGACC 967 CCCCCCAGAACTCCACCCCAGAACCCACACACCCACACACCCACACACCCACACACCCCACA		940	TTCCAGTAGCCAGCGGTAGTGTGA	TCACACTACCGCTGGCTACTGGAA
943 CAACCGTGGAAGTACGACCCGCA TGGCGGGTCGTACTTCCACGCTTG 944 GTGTGCACTGGATCCGAGCCCTAG CTAGGGCTCGGATCCAGTGCACAC 945 TCCCTGGGCTAGCATTGCGAGGTT AACCTCGCAATGCTACCCAGGGGATCCAGTGCACAC 946 AGAACCAAAGACGCTTGTTTGCCG CGGCAAACAAGCGTCTTTGGTTCA 947 CGTCACATGCAAACGTTCCTCCC GGGAAGGGAACGTTTTCCATGACG 948 TGACCGCATGTATTGAGTCGCT AGCGACTCAATACACATGCGGTCA 949 GCGGGCCCAATGAGTATCCGTCAT ATGACGGATACTCATTGGCCCGC 950 TAGTGACTGTGAACGCCCCTGGTT AACCAGGGGCTTCAATTGGCCCGC 950 TAGTGACTGTGAACGCCCCTGGTT AACCAGGGGCGTTACAGTCACTC 951 TCGATGCAGTCTTTTTCCCGTCAA ACCAGGGGCGTTCACAGTCACTC 952 TCGATGCAGTCTTTTTCCCGTCAA TTGACGGGAAACACGCCCCGCG 953 ACCCCGTGGGGTTTTTTCCCGTCAA TTGACGGGAAACACCCCACGGGGT 954 CTACACGCGCAGTTTTTCCATCTTTTT AAAAATGGCGAAACCCCCACGGGGT 955 CGCAGCGACCTCATCATCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTTCTTTGGACTTGTG 957 ACGCGCCGCTCATCACTTCAGACC GGCTCCAGAGATGAGGTCGCTGCG 958 CGCACCCAGCACTCCTAAAATCGGT ACCAATTTAGGAGATCGCTGCGC 959 TCGATTGGAAAGCCAC 959 TCGATTGGCAAATCTA AGATTGATGAGGTCGCGGCGCGCGCGCGCGCGCGCCGCTCAAAATCGGCGCGCGC		941	CTGAATTCCGCCTATTGTTCGGCA	TGCCGAACAATAGGCGGAATTCAG
5 944 GTGTGCACTGGATCCGAGCCCTAG CTAGGGCTCGGATCCAGTGCACAC 945 TCCCTGGGCTAGCATTGCGAGGTT AACCTCGCAATGCTAGCCCAGGGA 946 AGAACCAAAGACGCTTGTTTGCCG CGGCAAACAAGCGTCTTTGGTTCT 947 CGTCACATGCAAACGTTCCCTCCC GGGCAAACAAGCGTCTTTGGTTCT 948 TGACCGCATGTGTATTGAGTGCGT AGCGACTCAATACCACTGCGGTCA 949 GCGGGCCCAATGAGTATCGCTCAT ATGACGGATACTCATTGCGGTCA 950 TAGTGACTGTAAACGCCCCTGGTT AACCAGGGGCAAACAGTCACTA 951 GCCACCGTTGACCGCGCGCGTATATC GATATACCACGGCACACAGTGCCT 952 TCGATGCAGTCTTTTTCCGCTCAA TTGACGGGCAAACACGCCCCACGGGT 952 TCAACACGCGCAGTTTTTCCGCAATTTTCAAATTGCGGCAAACCCCACCAGGGGT 954 CTACACGCGCAGTTTTTCCGCAATTTTAAAAAATGGCGAAACCCCACCAGGGGT 955 CGCAGCGACCTCATCTCTGGAGCC GCCTCCAGAGATGAGCTGCCCGC 956 CGACCCACCTCCTAAAATCGGT ACCAAGTCACAACTTGCGGCCGC 957 ACGCGCCCCTCATCCTCTGGAGCC GCCTCCAGAGATGAGCTCGCCGC 958 CGCAACCTCCTACAAATCAT AGATTGTAGTGAGCGGCCGCT 959 TCGTTGGGCAAAACCCAAC CTGGCTTTTACCACAGGAAGCCCCACGGCCC 959 TCGTTGGGCAAAACCCAAC CTGGCTTTTACGAAAACACTGCCTGCGC 950 TCGTTGGGCAAAACCCAAC CTGGCTTTTACCACAGGAAGTGCCCGCGCT 960 CCCCTTGTAATTGCCATTCTCCGT ACCAGAATCTAAGACGGCCGCT 961 GTAACCAGGGAGTCCTGGGCTGTGC 962 AGCGCAAGATCTGCGCTTGGCCTGGT 963 GCGTACATCTCTCCGT ACCACACCCAAGGAACGCAACCCCAAGGAACGCAAC 960 CCCGCTTGTAATTGCCATTCTCCGT ACCAGACCCAAGGAATAACAACGC 961 GTAACCAAGGGAATCTGGGGCTGAC 962 AGCGCAAGATCTGCGCTTGGCCTGGC 963 GCGTACATCTCCTCTATCACTCACTCACACACCCCAAGAATCTACAACGC 964 CCTCTGTGGCAAGAACAACCCT ACCGCCCAAGAATTACAACGCG 965 CCTATGCAATGGACGCATCACACACACCCCAAGAATTACAACGCG 966 CTCCGTGGATGGCGTACCACACACACCCCAAGACTCCCTGGTTAC 967 CCTCACTCGCTCATCACAACCCCACGACACCCCAAGAACGCCAACACACAC		942	GCTTGAACCTCGAGGCGATGTTCT	AGAACATCGCCTCGAGGTTCAAGC
945 TCCCTGGGCTAGCATTGCGAGGTT AACCTCGCAATGCTAGCCCAGGGA 948 AGAACCAAAGACGCTTGTTTGCC CGGCAAACAAGCGTCTTTGGTTCT 947 CGTCACATGCAAACGTTCCCTCCC GGGAGGGAACGTTTGCATGACG 948 TGACCGCATGCTAAACGTTCCCTCCC GGGAGGGAACGTTTGCATGACG 948 TGACCGCATGTATTGAGTCGCT AGCGACTCAATACACATGCGCGAC 950 TAGTGACTGTAAACGCCCCTGGTT AACAGGGGCGTCAACACATGCCACCTCA 951 GGCACCGTCTGCCGCGCGCGTATATC GATATACGCGCGGCAGACGGTCCC 952 TCGATGCAGTCTTTTTCCCGTCAA TTGACGGGAAAAAGACTGCATCAC 953 ACCCCGTGGGGTTTCGCCATTTTTT AAAAATGGCGAAAACACCCACGGGGT 15 954 CTACACGGCAATTTTGTACTTTTT AAAAATGGCGAAACCCCACGGGGA 955 CGCAGCGACCTCATCTCTGGAGCC GCCTCCAAAATGCAACTGCGCGTGTAAG 956 CGACCCAGCACTCCTAAAATCGGT ACCAAACTGCCACACTGCGCGTCGC 957 ACGCGCCGCTCATCACTTCACATCT AGATTGTAGTGATGAGCGCGCCGC 958 CGCAACTTCCTGTGGCAAAGCCAA CTGCCTTTTTGCCACAAGAGACGGGCAG 959 TCGTTTGGCACAAGCCAA CCGAGGTTTTGCCACAAGAGAGCAGGGCAAACGGGGAAAAGACACTGAACCCAACTGCAACTGCGCGTGCA 950 CCGCTTGTAAATTGCGT ACCAAGACCAACTGCCAACACTGCCCAACGA 960 CCGCTTGTAAATTGCATTCCGT ACGAAGATGAACCAACTGCCAACGAA 960 CCGCTTGTAAATTGCATTCCGT ACGAAGACAACTGCCAACGAA 961 GTAACCAAGGGAACTCCTGGGCTTTGC 952 AGCGCAACATTCACTGGGCTTTGC 953 AGCGCAACATTCCTGGGGCAACTGAA TCAATTGCACTAAGACCAG 961 CTATGCAATTGGCATTCCCGT ACGAAGATGCAATTACAAGCGG 961 GTAACCAAGGGAATCCTGGGCTTTGC CACAGCCCAGGACTCCCTGGTTTAC 962 AGCGCAAGATCTGGGCTTTGC CACAGCCCAAGATTTACAAGCGG 963 CCTCATGCAATGGAGCAACTACGCAACGAACGAACTACCCAACAGAGG 964 CCTCTGTGGCAAGAAAAAACCGT ACGCTCCACCAAGAACGAACGAACGAACGAACGAACGAAC		943	CAAGCGTGGAAGTACGACCCGCCA	TGGCGGGTCGTACTTCCACGCTTG
946 AGAACCAAAGACGCTTGTTTGCCG CGGCAAACAAGCGTCTTTGGTTCT 947 CGTCACATGCAAACGTTCCCTCCC GGGAGGGACGTTTGCATGTGACG 948 TGACCGCATGTGTATTGAGTCGCT AGCGACTCAATACAACATGCGGTCA 10 949 GCGGGCCCAATGACGACCCCTGGTT AGCCAGTACACACTGCGGTCA 950 TAGTGACTGTGAACGCCCCTGGTT ACCAGGGGGCGTACACGTCACATACACACTGCGGCCGC 951 GGCACCGTCTGCCGGCGCGTTATTC GATTATACGCGCGGCAAACAGCTCACTA 952 TCGATGCAGTCTTTTTCCCGTCAA TTGACCGCGGCAAACAGCTCACTA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAACACCCCACGGGT 15 954 CTACACGCGCAGTTGTGC CACAAATCACACTCGCGCTGTAG 955 CGCAGCCACCTCATCTCTGGAGCC GGCTCCAGAGAAGACCCCACGGGGT 956 CGACCCAGCCACTCTCTGGAGCC GGCTCCAGAGAATGAGGTCCGTCCG 957 ACCGCCAGCACCTCATCACTACATCT AGATTGTAGACGAGTGAGGTCCGTCGC 958 CGCACCTCATCACTACAATCT AGATTGTAGATGAGCGGCGCGTC 959 TCGTTGGGCACATAAGGCAACTGA TCAGTTTTGCACAGGAGAGTTGCG 960 CCCCTTGTAATTGCCATTCCGT ACGGAGAATGAGGTCACCGA 960 CCCCTTGTAATTGCCATTCCCT ACGGAGAATGAGGTCACCGA 961 GTAACCAGGGGAGTCCTGGGCTCTG 962 AGCGCAAGATCTGGGCTGTG CACAGGCCCAGGAATTTGCCCT 963 GCGTACATCTGCGTTACCACACGA 964 CCTCTGTGGCAAGACCACG TCACAGCCCAGGAATTTGCCCT 965 CCTACCAAGGAAAACCCT ACGGTTTTTCCTCTCGCCCACAGAGT 966 CCTCAGTGGACTGCACCGA TCCGACTCACCACGAGG 967 CCTCACTGTGACAGAAACCCT ACGGTTTTTCCTCCCCACAGAGG 968 CCTCAGTGGACTGCACCGA TCCGACTCACCACCAGACGCACACACACACACACACACAC	5	944	GTGTGCACTGGATCCGAGCCCTAG	CTAGGGCTCGGATCCAGTGCACAC
947 CGTCACATGCAAACGTTCCCTCC GGGAGGGAACGTTTGCATGTGACG 948 TGACCGCATGTGTATTGAGTCGCT AGCGATCATACACATGCGGTCA 949 GCGGGCCCAATGAGTATCCGTCAT ATGACGGATACACATGCGGTCA 950 TAGTGACTGTGAACGCCCTGGTT AACCAGGGGCGTTCACAGTCACTA 951 GGCACCGTCTGCCGCGCGGTATATC GATATACCACGGGCGGCGTGCC 952 TCGATGCAGTCTTTTTCCCGTCAA 176ACGGGAAAAACACTCCACTGA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAAACCCCACGGGGT 15 954 CTACACGCGCAGTTGTGACTTTTT AAAAATGGCGAAAACCCCACGGGGT 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTCCGCGTGCG 957 ACGCCCCGCTCATCACTACAATCT AGATTGTAGGAGGTGCTGCG 958 TCGTTGGGCACATAAAGCCAA 959 TCGTTGGGCACATAAAGCCAG 950 CCGCACTCATCACTACAATCT AGATTGTAGTGAGCAGGAGAGTGCG 959 TCGTTGGGCACATAAAGCCAG 960 CCCCTTGTAATTGCCATTCTCCGT ACGGAGAATGAGGTCCCAACGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGGT QGCACACTTCTGCGACCAGGAAAGCCAACTCCCTAGGAAAGCCAACTCCCTGGTTAC 962 AGCCCAACATCTGGGGGCAATCAC 963 GCGTACATCTGCCATCACACATGA 964 CCTCTGTGGCAGGAAAGAACCCC 965 CCTATGCAACTGGACATGA CCATGCTGACAGAATTACAAGCGG 965 CCTATGCAACTGGACATGA CCATGCTGATGAGCAGATTCCCC 966 CCTCTGTGGCAGGAAAGAAACCCT ACGGTTTCTTTCCTGCCACAGAGA 966 CTCGGTGGATGGCAGTAAAGGATA TATCCTTATTCCCTGCCACAGAGG 967 CCTCACTCGTGATGGCGATAAGGAT TACCATTGCACTCACCAGAG 968 TACGCCCAACAACTCCAACGAC GCCCATCCACCAGAGG 967 CCTCACTCGTGATGGCGTGACCA TGCGTCACCACCAGAGG 968 TACGCCCTCACTGCATTCTACCACATGA TATCCCTTATTCGCCATCCACGAG 969 CCGGAGAAGTTACCGCGAATCAGCC GCCGTATGCCCTTCTGTGAGCGTA 969 CCGCGAGAAGTTACCGGAC TGCGCACCAGCCCATCACCAGAGG 971 ACTTTCAGCACGCGAACAGCCAA 7TGCGCTCTCTGTGAGCGTTAC 972 CTAAACCCCCTTGATGCATTGAGCA 7TGCGCTTTCCGGTGCTACAAGAGCACTCCACCGAACAGCCAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAACAGCCAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAAACGCCAACAGCCCAACAGCCAAACGCCAACAA		945	TCCCTGGGCTAGCATTGCGAGGTT	AACCTCGCAATGCTAGCCCAGGGA
948 TGACCGCATGTGTATTGAGTCGCT AGCGACTCAATACACATGCGGTCA 949 GCGGGCCCAATGAGTATCCGTCAT ATGACGGATACTCATTGGGCCCGC 950 TAGTGACTGTGAACGCCCCTGGTT AACCAGGGGGGTTCACAGTCACTA 951 GGCACCGTCTGCCGCGCGTATATC GATATACGCCGGGCAGACGGTGCC 952 TCGATGCAGTCTTTTCCCGTCAA TTGACCGGGGAAAAAGACTGCATCGA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAAAACACTGCACTCGA 954 CTACACGCGCAGTTGTGCCATTTTT AAAAATGGCGAAAACCCCAGGGGGT 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTACAATCGGT ACCAGTTTATAGGAGTGCCTGCG 957 ACGCGCCGCTCATCACTACAATCC AGATTGTAGAGGTGCGTGCG 958 CGCAACTCCTGGCAAACCCAG CTGGCTTTTAGGAGTGCTGCGGGGCG 958 CGCAACTTCCTTGGAGCC GCCTTTTTAGGAGTGCTGCGCG 959 TCGTTGGGCAAAACCAG CTGGCTTTTGCACAACACT 950 CCGCTTGTAATTGCCATTCTCCGT ACAGAAATGGAAATTGACAGCGGC 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCCAACGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCCAACTGACAACTGA GCCAGGAACTTCCTGGGTCGC 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGGCAAAACCAG CAGGACAACTGACACGAACTGACACGAACGACGAACTGAACACGAACGA		946	AGAACCAAAGACGCTTGTTTGCCG	CGGCAAACAAGCGTCTTTGGTTCT
949 GCGGGCCAATGAGTATCCGTCAT ATGACGGATACTCATTGGGCCCGC 950 TAGTGACTGTGAACGCCCTGGTT AACCAGGGGCGTTCACAGTCACTA 951 GGCACCGTCTGCCGCGCGTATATC GATATACGCGCGGGAGACGGTGCC 952 TCGATGCAGTCTTTTTCCCCTCAA TTGACGGGAAAAAAAACCTGCACTCA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAAACCCCACCGGGT 15 954 CTACACGCGAGTTGTGACTTGTG CACAAGTCACAACTCCGCGGTTAGA 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCAAGTCACAACTGCGCGTGTAG 957 ACGCGCCGCTCATCACTACAATCT AGATTGTAGGAGTGCGCGCGGT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 959 TCGTTGGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAGAAGAGAGAGAGAGAGAGAAGCAG 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAGAATGACCAACCCCAACGAA 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAGAATGACCAGA 961 GTAACCAGGGAGTCCTCGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 ACGCCAAGATCTGGGGGAAGTCAC GTGACTGCCCCCAAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATG CACAGCCCAGGACTCTCTCGGTTAC 964 CCTCTGTGGCAAGAAACCGT ACGATCTCCTCTGCCACAGAG 965 CCTATGCAATGGACATCACCG CACAGCCCCAGATCTTGCGCT 966 CTCGGTGGATGACCAACCGCA TCCCACCACAGAGG 967 CCTCACTCGTGATGCACAACGCA TCCCACCACAGAGG 967 CCTCACTCGTGATGGACCTA TACCCACCACACAGGG 967 CCTCACTCGTGATGCGCATCACGCA TCCCACCGAACGAACGCCATCACCACAGAGG 967 CCTCACTCGTGATGCACAA TACCCC GGCGTATGCCGTTAACTTCCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAAGGGAA 971 ACTTTCAGCACGCGAACAGCCCAA 972 CTAAACCACCCGGATCGGAC TCCCCACCGGTTAACTTCTCCGG 973 GCTCCCTTGATGCATGAGCA TTGCCGCTTAACTTCTCCGG 973 GCTCCCTTTTTGGATGCATCAGCC TCCCCCGCTTCACAGAAGGCATTCAGCA 974 CAGACATCGTACCACTCGCATC TACCCACCAACAGGCGCTAACTTCCCACGAGGCGTTAACTTTCTCCGG 975 TAGCCCCCGCGGCGCCTCATCCCCAC GAGGCATCAACGCC 977 TAGCCCCCTCACTGCATTCTCCTCT AAGAGCATCGTAACAGGCACTCCACCACACACCACCACACACCCACACACGCCATACCCACCACACACGCCATACCCACCACACACGCCATACCCACCACACACGCCATACCCACACACA	İ	947	CGTCACATGCAAACGTTCCCTCCC	GGGAGGGAACGTTTGCATGTGACG
950 TAGTGACTGTGAACGCCCTGGTT AACCAGGGGCGTTCACAGTCACTA 951 GGCACCGTCTGCCGCGCGTATATC GATATACGCGCGACAGACGGTGCC 952 TCGATGCAGTCTTTTTCCCGTCAA TTGACGGGAAAAAAGACTGCATCGA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAAACCCCAGGGGT 15 954 CTACACGCGCAGTTGTGACTTGT CACAAGTCACAACTGCGCGTGTAA 955 CGCAGCGACCTCATCTTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 957 ACGCGCCGCTCATCACATACGGT ACCGATTTTAGGAGTGCTGGGTCG 958 CGCAACTTCCTGTGGCAAACCCAG CTGGCTTTTAGGAGTGCGGCGCGT 959 TCGTTGGGCACAATAGGCAACTGA TCAGTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTCGT ACCGAGAAATGGCAATTACAAGCGG 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTCCCCAGAACTCTCGGTTAC 963 GCGTACATCTGGCGTACCCAGACCCCAGGACCTCCCTGGTTAC 964 CCTCTGTGGCAGAAAAACCGT ACGCCAAGACCCCAGAACTTCCGGTTAC 965 CCTATGCAATGGACCATGG CCATGCTCAAAATGAGCAGGG 966 CTCGGTGGATGACCATGA TCCCATGCACCAGAACTCTTCCCGCAGACGAAAGAACCGT ACGCCAAGAGACTCCCCAGAACTTCACGCAGACGCCAAGAGAACCGGGAAAAGAAACCGT ACGCTAGAGACAACAACAGGG 966 CTCGGTGGATGGCGAAAAAGAAACCGT ACGCTAGAGAGAACAACAGGG 967 CCTCACTCGTGATGGACGAAAAAACCGT ACGCTACAGAGGGCCAACAACAGAGG 968 TACCAAGAAGACCACAACAGCCAACGCCAACAACAGGGAAAGAAACCGT ACGCCAACAACAACAACAACAACAACAACAACAACAACAA		948	TGACCGCATGTGTATTGAGTCGCT	AGCGACTCAATACACATGCGGTCA
951 GGCACCGTCTGCGCGCGTATATC GATATACGCGGGAGACGGTGCC 952 TCGATGCAGTCTTTTTCCCGTCAA TTGACGGGAAAAAGACTGCATCGA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAAACCCCACGGGGT 954 CTACACGCGCAGTTGTGACTTGTG CACAAGTCACAACTGCGCGTGTAG 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTGCGTGCGG 957 ACGCGCCGCTCATCACAATCT AGATTGTAGTGAGCGGCGCGCG 958 CGCAACTTCCTGGGCAAAGCCAG CTGGCTTTGAGAGCGGCGCGCT 959 TCGTTGGGCACATAAACCAG CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGATGACCAACTGACGA 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGAACTTACAACGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGAACTTACAACGCG 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAAGAACTTACAACGCG 963 GCGTACATCTGCTCTATCAGCATGG CCATGCCCCCAGATCTTGCGCT 964 CCTCTGTGGCAGAAAGAAACCGT ACGGTTTTTTTCCTGCCCACAGAG 965 CCTATGCAAGAAGAAACCGT ACGGTTTTTTTTTTCCTCCACCAAGGA 966 CTCGGTGGATGGCACATAAGGATA TATCCTTATTCGCCACCACAGGA 967 CCTCACTCGTGATGGCGTGACGA TCCGATGGAGGTCCATTGCACAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTACCACCACGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACCACGAG 968 TACGCTCACAGAACGCCATACGCC GCCGTATCGCCTTCGTGAGCGTA 969 CCGGAGAAGTTACGCCGGACCAATCGCC GGCGTACCTACCACGAGG 960 CCGCAGAACTTACGCCGACCATCACGACTTCTCCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGCGC 971 ACTTTCACCACGCGCACACGCCAA TTGCGCTGTTCGCGTTCAAACGT 972 CTAAACGCCCTTGATGCATCGAC GTCCATCCACGAGTGAGG 973 GCTTGCCTTTTACGAACGCA TGCCCAGACACGCATCACAAGGCATCACGAGTGAGG 974 CAGACATCGTACGACCGCAA TAGCCCAGACGCAACGCCATCACGAGTGAGG 975 TAGCCCCTCACTGCATCTTT AAGACGAACAGCCAATCGTCAAAGGCAATGG 976 GATGCCCTTTTTGCTCCTCTT AAGACGAACAGCCAATGCCAAGGCAATTTTGCTGTG 977 TAGACCACCCCTTGATGCCTCTT AAGACGCATCGGAACGCCATCGAAGGCACTC 977 TGAGCTGCCTTTTGCCACCAACGCCCTCAACGAGCACCCCAAAAAGGCAATCGTAACGCAACGCCATCGCAATGCCCAAGGCAACGCACTCGAACGCACTCGAACGCACTCGAACGCACTCGAAAAAGGCAATCGTAACGCAACGCACTCGAACGACGCACTCGAACGCACTCGAACGCACTCGAACGCACTCGAACGACGCACTCAAAAAAGGCAATCGTAACGCACGC	10	949	GCGGCCCAATGAGTATCCGTCAT	ATGACGGATACTCATTGGGCCCGC
952 TCGATGCAGTCTTTTTCCCGTCAA TTGACGGGAAAAAGACTGCATCGA 953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAACCCCACGGGGT 954 CTACACGCGCAGTTGTGACTTGTG 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTGCTGCGG 957 ACGCGCCGCTCATCACATCT AGATTGTAGGAGTGAGGCGCGCT 958 CGCAACTTCCTGGGCAAAGCCAG CTGGCTTTTAGGAGTGAGGCGCGCT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTTGCACACAGGAAGTTGCG 959 TCGTTGGGCACATAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGAACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCTACACATGG CCATGCTCCCCCAGATCTTGCGCT 964 CCTCTGTGGCAGAAAGAAACCGT ACGGTTGCTCCCCCCAGATCTTGCGCT 965 CCTATGCATGAGAAAAAAACCGT ACCGATGGAGGCCACTCCACCGAG 966 CTCGGTGGATGAGCAATAAGGATA TATCCTTATTCGCCACCACAGG 967 CCTCACTCGTGATGGCGTGACGCA TCCGATGGAGGTCCATTGCACAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTACCACCGAGG 969 CCGAAGAAGTTACGCCGAATAAGGATA TATCCTTATTCGCCATCCACCGAG 969 CCGAAGAAGTTACGCGGATCGAC TCCGATGGAGTCCATTCCACCGAG 960 CCGCACCTCACTGATGGCGTGACGCA TCCGCATCCACCGAGTGAGG 961 CCTCACTCGTGATGGCGTGACGCA TCCGATGGAGTTCATCCACGAGG 962 CCGAAGAAGTTACGCCGAATCGACCA TCCGCATCCACCACGAGTGAGG 963 TACGCCTCACTGATGTTTTTGGTAT ATACCAAAAATGCAGTGAGGCGCG 970 GCGCCCTCACTGCATTTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCACCACGCGCACCCATCACGCA TCCGCGTTACCTCCCGGG 972 CTAAACGCCCTTGATGCCTTA TATCCAACAAAATGCAGTGAGGCGCGCGCGCTACCTCACGACGCATCCACGAGTGCATCGAACGCATCGAACGCATCAGAGCACGCATCGAACGCATCGAACGCATCGAACGCATCGAACGCATCGAACGCATCGAACGCACGC		950	TAGTGACTGTGAACGCCCCTGGTT	AACCAGGGGCGTTCACAGTCACTA
953 ACCCCGTGGGGTTTCGCCATTTTT AAAAATGGCGAAACCCCACGGGGT 954 CTACACGCGCAGTTGTGACTTGTG CACAAGTCACAACTGCGCGTGTAG 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTGCTGCGCG 957 ACGCGCCGCTCATCACATCAT AGATTGTAGGATGAGCGGCGCGT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAATGGCAATTACAAGCGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGAATCTCCTGGTTAC 962 AGCGCAAGATCTGGGGGGCAGTCAC GTGACTGCCCCCACAATCTCCTGGTTAC 963 GCGTACATCTGCTCATCAGCATGG CCATGCCCCCAGAATCTTGCGCT 964 CCTCTGTGGCAGGAAAAACCCT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGAA TCCGATGGAGCAGAGGAGAGAAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 966 CTCGGTGGATGGCCGAATAAGGATA TATCCTTATTCGCCATCACCGAG 967 CCTCACTCGTGATGGCGTGACGA TGCGTCACCGCATCACAGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTTGAGCGTA 969 CCGCAGAAAGTTACCCGGATCGGAC TGCGTCACCGCATCACCGAGGA 969 CCGCAGAAGTTACCCGGATCGGAC GTCCGATCCACCGAGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGCT 971 ACTTTCAGCACCGCAACAGCCCAA TTGCGCTGTTCGCGTGAAAGT 972 CTAAACGCCCTTGATGCAGAACGCCAA TGCGCTGTTCGCGTGAAAGT 973 GCTTGCCTTTTACGATCGCGTA TAGCGATCGAACGGCGTTTAG 973 GCTTGCCTTTTACGATCGCGTA TAGCGCTGTTACAGGGCGGTTAGGGAAGCAAGC 35 974 CAGACATCGTACGCACTCGGCAT TAGCGATCGAAGGAGCAAGC 975 TAGCCGCGCGCGCCCTCATCCCATCCATCCAAAAGGCAACAGCAAAAGGAACAGCAACGCAA TGCGCTGTTACAGGGCGGTTTAG 975 TAGCCGCGCGCGCCCTCATCCCTTT AAGAGACAAAGGAACCAAAAGGCAACCGAA 976 GATGCCCTTTTTGGTCCCATGCCA TGGCATCGGCAAAAAGGCAACCAAAAGGCAACCGAA 977 TAGCCGCGCGCGCCCCATGCCA TGGCATCGGCGGAAACGCAAAAGGCAACCAAAAGGCAACCCAAAAGGCAACCCAAAAAGGAACCCAAAAAGGCAACCAAAAGGCAACCAAAAGGCAACCAAAAAGGAACCCAAAAAGGAACCCAAAAAGGAACCCAAAAAGGCAACCCAAAAAGGCAACCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAAGGCAACCCAAAAACCGCACCAAAAACCGCACCAAAAACCGCACCAAAAACCCGCACCAAAAACCCGCACC		951	GGCACCGTCTGCCGCGCGTATATC	GATATACGCGCGGCAGACGGTGCC
15 954 CTACACGGCAGTTGTGACTTGTG CACAAGTCACAACTGCGCGTGTAG 955 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTGCTGCGGTCG 957 ACGCGCCGCTCATCACATCT AGATTGTAGTGATGAGCGGCGCGT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 959 TCGTTGGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGGCACGAACTTACAAGCGG 962 AGCGCAAGATCTGGGGGGAGTCAC GTGACTGCCCCACGAATCTTGCGCT 963 GCGTACATCTGGTCATCAGCATGG CCACAGCACGAATCTTGCGCT 964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCACAGAGGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAATAAGGAAT TATCCTTATTCCCACTACAGAGG 967 CCTCACTCGTGATGGCGAATAAGGATA TATCCTTATTCCCACTCACCAGAG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCATCACCACGAGGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGGAGGGGA 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCACCACGAGGG 970 GCGCCCTCACTGGATGTATT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGGAACAGCGCAA TTGCGTTCCGCGTAAAGT 972 CTAAACGCCCTTGATGCATTGTAT 973 GCTTGCCTTTTACGATCGTCA 974 CAGACATCGTACGCATCAGACGCAATCACAGGTGAGGCCGC 35 974 CAGACATCGTACGCACTCGCATC GATGCCGATCCAACAGGCCATTAAGGCAGCATACGCC 975 TAGCCGCGCGCGCCTCATCCCAC GATGCCGATCCAACAGGCCATCAAAAATGCAGTGAGGGCAC 976 GATGCCTTTTACGATCGTCGCAT TAGCGACGATCACAAGGCCATTAGGCAGCATCGAACGCCATTAACGCCCTTTATGCATTAGCATTCTTCTGGATGCATTCTTGAGACACACGCCATTAACGCCGGAACAGCCCAACAGACGCAATCGTAAAAGGCAACACGCAACAGGCAACAGCGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGCGCAACAGGCAACAGCGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGCGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGCGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGGCAACAGCACACAGGACACACAGGACACACAGGCAGCA		952	TCGATGCAGTCTTTTTCCCGTCAA	TTGACGGGAAAAAGACTGCATCGA
965 CGCAGCGACCTCATCTCTGGAGCC GGCTCCAGAGATGAGGTCGCTGCG 956 CGACCCAGCACTCCTAAAATCGGT ACCGATTTTAGGAGTCGCTGGGTCG 957 ACGCGCCGCTCATCACTACAATCT AGATTGTAGTGATGAGCGGCGCGT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 959 TCGTTGGGCACATAAGCCAAC CTGGCTTTGCCACAGGAAGTTGCG 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGAACTTACCAGCGG 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCAGAATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC 964 CCTCTGTGGCAGGAAAAAACCGT ACGGTTTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCAGGA TCCCGATGAGAGAGAAACCGT 966 CTCGGTGGATGGCGAATAAAGGATA TATCCTTATTCCCATCACAGAGG 967 CCTCACTCGTGATGGCGTACAGCA TGCGTCACCCACCGAG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCACTGAGCGCA 971 ACTTTCAGCACGGAACGCCAA TGCCGCTTCGCGTGAAAGT 972 CTAAACGCCCTTGATGACGCAA TGCCGCTTCACGCGTTAAAGT 973 GCTTGCCTTTTACGATGACCAA 974 CAGACATCGTACGCAATCGCC GATGCCGATCAAAGGCCATCACGAGGCACACGCAACAGCCCATCACAGAGCCCTTAAAAGGCAAACCCAACAGCAACAGCAACAGCAACAGCCAACAA		953 .	ACCCCGTGGGGTTTCGCCATTTTT	AAAAATGGCGAAACCCCACGGGGT
956 CGACCCAGCACTCCTAMATCGGT ACCGATTITAGGAGTGCTGGGTCG 957 ACGCGCCGCTCATCACTACTACTACTACTACTACTACTACTACTACTA	15	954	CTACACGCGCAGTTGTGACTTGTG	CACAAGTCACAACTGCGCGTGTAG
957 ACGCGCCGCTCATCACAATCT AGATTGTAGTGATGAGCGGCGCGT 958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 959 TCGTTGGGCACATAAGGCAACTGA TCAGTTGCCTTATGTGCCCAACGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC 25 964 CCTCTGTGGCAGGAAAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGAGCAGATGTACGC 966 CTCGGTGGATGGCCGAATAAGGATA TATCCTTATTCGCCATCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACCGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 969 CCGGAGAAGTTACGCCGGATCGGAC GTCCGATCGCGCTACCACCGAG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAAGGC 971 ACTTTCAGCACGCGAACAGCGCAA TGCGTCACGCTGAACGTTCCCGG 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCACGGGGCGC 973 GCTTGCCTTTACGATCGTCGCTA TAGCGACGATCAGAGGCGTTAGG 974 CAGACATCGTACGCAACGCCAA TGCCTCATGCATCAAGGGCGTTAGG 975 TAGCCGCGGACACAGCGCAA TGCCTCATGCATCAAGGGCGTTTAG 976 GATGCCTTTTTACGATCGTCGTA TAGCGACGATCGTAAAAGGCAAGC 977 TGAGCTGCCGCGCTCCTATGCTCTT AAGAGCATCGTACGATGTCTG 977 TGAGCTGCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAAGGGCATCA 978 CCGCCGTATACGTCCCATGCCA TGGCATGGGAAGCCAGCAGCCAAAAATTGGAGCAGCAGCACAAAAATGCAGTGGCAGCACCAAAAAGGGCATCA 978 CCGCCGTATACGTCCCCATGCCA TGGCATGGGAACCACAAAAAGGCAAGCCACAAAAAGGCAAGCCACAAAAAGGCAAGCCACAAAAAGGCAACCCAAAAAA		955	CGCAGCGACCTCATCTCTGGAGCC	GGCTCCAGAGATGAGGTCGCTGCG
958 CGCAACTTCCTGTGGCAAAGCCAG CTGGCTTTGCCACAGGAAGTTGCG 959 TCGTTGGGCACATAAGGCAACTGA TCAGTTGCCTTATGTGCCCAACGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC 964 CCTCTGTGGCAGGAAAACCGT ACGGTTTCTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAAAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACAGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 969 CCGGAGAAGTTACGCCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGCGCC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCAAAGT 972 CTAAACGCCCTTGATGCATGAGAC TGCTCATGCATCAAGGGCGTTAG 973 GCTTGCCTTTTACGATCGTCGTA TAGCGACGATCAAAGGCATTCG 974 CAGACATCGTACGCATCGCATCGCATCGAACGCAACAGCCATCAAGAGCAACGCAACAGGAACACCAACAGGAACACCAACAA		956	CGACCCAGCACTCCTAAAATCGGT	ACCGATTTTAGGAGTGCTGGGTCG
20 959 TCGTTGGGCACATAAGGCAACTGA TCAGTTGCCTTATGTGCCCAACGA 960 CCGCTTGTAATTGCCATTCTCCGT ACGAGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CATGCTGATGAGCAGATGTACGC 25 964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGGAAAGAAACCGT TATCCTTATTCGCCACAGAGG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACAGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCCG GGCGTATGGCGTTCTGTGAGCGTA 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTAG 973 GCTTGCCTTTTACGATCGTCGTA TAGCGACGATCAAGAGCCAAGC 35 974 CAGACATCGTACGCACTCGCAT TAGCGACGATCACAGAGCAAGC 975 TAGCCGCGCGCCCTCATGCCTT AAGAGCATAAGGCATCTG 976 GATGCCCTTTGTGTCCCATGCCAT TGCGCTGTGCGAAAGGCATCG 977 TGAGCTGCCTTGCCACACATGCCC GAGGCACCACAAAAAGGGCATCAAAAAGGCAAGC 40 979 TAGTGCTCTCCCCACGCGCCACACACCCGGAACACACCCGCAACACACCCCCGCACACACACCCCCACACACACCCCCAACACACACCCCCC	j	957	ACGCGCCGCTCATCACTACAATCT	AGATTGTAGTGATGAGCGGCGCGT
960 CCGCTTGTAATTGCCATTCTCCGT ACGGAGAATGGCAATTACAAGCGG 961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC 25 964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCACGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACCGCAGTGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATCATCAAGGGCGTTAGG 973 GCTTGCCTTTTACGATCGCTA TAGCGACGATCGTAAAAGT 974 CAGACATCGTACGACTCGGCAT GATGCCGATCGTAAAAGCCAAGC 35 974 CAGACATCGTACGACTCGGCATC GATGCCGATCGTAAAAGGCAAGC 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATGGAGGCATCG 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGGCACCAAAAAGGGCATC 977 TGAGCTGCCTTTTGCCCCATGCCA TGGCATCGTGCAAAAGGGCATC 977 TGAGCTGCCTTTTGCCCCATGCCA TGGCATCGTGCAAAAGGGCATCC 978 CCGCCGTATACGTGCCATCCCA GAGGCATCGTGAAAGGCAAGC 40 979 TAGTGCTCTCCCGCGCTCATCCAAC GTTGGATGACGCGCGGGGGAAAAACGCGCGGAAAAACGCCACCTCACGATGCCCC GAGGCATCCGTAAAAGGCAAGCACCCACCCACCCACCCCCCGCGCCCCCCC		958	CGCAACTTCCTGTGGCAAAGCCAG	CTGGCTTTGCCACAGGAAGTTGCG
961 GTAACCAGGGAGTCCTGGGCTGTG CACAGCCCAGGACTCCCTGGTTAC 962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC 25 964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGTACCGA TCCGATGGAGGTCCATCGCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACCGCATCACCGAG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGCGCC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAAGGCGTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 35 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACAAAGGCAAGC 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAAGGCAAGC 977 TGAGCTGCCTTGCCCCATGCCC GAGGCATCGTGAAAAGGCAAGC 40 979 TAGTGCTCTCCGCGCTCATCCAACGTTTGGCACGAGCAGCCGCGCGGCGCGCGC	20	959	TCGTTGGGCACATAAGGCAACTGA	TCAGTTGCCTTATGTGCCCAACGA
962 AGCGCAAGATCTGGGGGCAGTCAC GTGACTGCCCCCAGATCTTGCGCT 963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC  964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACCGAG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCACCGAGTGAGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TGCGCTGTTCGCGTGAACGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAAGGCAAGC 35 974 CAGACATCGTAGCATGAGCA TGCTCATGCATCAAAGGCAAGC 975 TAGCCGCGCGCTCCTATGCTCTT AAGAGCATCGTAACAGGCATCTG 976 GATGCCCTTTTGGTCCCCATGCCAT TGGCATGGGGACCCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCT GAGGCATCGTAACAGGCATCCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTAACAGGCATCCA 978 CCGCCGTATACGTGCCAC GAGGCATCAAAAGGCAAGCGCATC 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCCGCGGAGAGCACTA		960	CCGCTTGTAATTGCCATTCTCCGT	ACGGAGAATGGCAATTACAAGCGG
963 GCGTACATCTGCTCATCAGCATGG CCATGCTGATGAGCAGATGTACGC  964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCCACAGAGG  965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG  966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCACCGAG  967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCGATCACGAGTGAGG  968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA  30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG  970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC  971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGAAAGT  972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG  973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC  35 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG  975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGGCTA  976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC  977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGCAAAGGCCATCA  978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG  40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCACACATA		961	GTAACCAGGGAGTCCTGGGCTGTG	CACAGCCCAGGACTCCCTGGTTAC
25 964 CCTCTGTGGCAGGAAAGAAACCGT ACGGTTTCTTTCCTGCCACAGAGG 965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACGAGTGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGCGCC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGGCGTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATCAACGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGGAGAGCACTA		962	AGCGCAAGATCTGGGGGCAGTCAC	GTGACTGCCCCCAGATCTTGCGCT
965 CCTATGCAATGGACCTGCATCGGA TCCGATGGAGGTCCATTGCATAGG 966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACGAGTGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTCC GAGGCATCGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGACGCGCGGAGAGCACTA		963	GCGTACATCTGCTCATCAGCATGG	CCATGCTGATGAGCAGATGTACGC
966 CTCGGTGGATGGCGAATAAGGATA TATCCTTATTCGCCATCCACCGAG 967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACGAGTGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTCACCAC GTTGGATGAGCACGCAGCCGCGCGAGAGCACTA 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGGAGAGCACTA	25	964	CCTCTGTGGCAGGAAAGAAACCGT	ACGGTTTCTTTCCTGCCACAGAGG
967 CCTCACTCGTGATGGCGTGACGCA TGCGTCACGCCATCACGAGTGAGG 968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 30 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGGAGAGCACTA		965	CCTATGCAATGGACCTGCATCGGA	TCCGATGGAGGTCCATTGCATAGG
968 TACGCTCACAGAACGCCATACGCC GGCGTATGGCGTTCTGTGAGCGTA 969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		966	CTCGGTGGATGGCGAATAAGGATA	TATCCTTATTCGCCATCCACCGAG
969 CCGGAGAAGTTACGCGGATCGGAC GTCCGATCCGCGTAACTTCTCCGG 970 GCGCCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTC CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA	•	967	CCTCACTCGTGATGGCGTGACGCA	TGCGTCACGCCATCACGAGTGAGG
970 GCGCCTCACTGCATTTTTGGTAT ATACCAAAAATGCAGTGAGGGCGC 971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGGGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		968	TACGCTCACAGAACGCCATACGCC	GGCGTATGGCGTTCTGTGAGCGTA
971 ACTTTCAGCACGCGAACAGCGCAA TTGCGCTGTTCGCGTGCTGAAAGT 972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 35 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA	30	969	CCGGAGAAGTTACGCGGATCGGAC	GTCCGATCCGCGTAACTTCTCCGG
972 CTAAACGCCCTTGATGCATGAGCA TGCTCATGCATCAAGGGCGTTTAG 973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC 35 974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATGCTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		970	GCGCCTCACTGCATTTTTGGTAT	ATACCAAAAATGCAGTGAGGGCGC
973 GCTTGCCTTTTACGATCGTCGCTA TAGCGACGATCGTAAAAGGCAAGC  974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG  975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCGCTA  976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC  977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA  978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG  40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		971	ACTTTCAGCACGCGAACAGCGCAA	TTGCGCTGTTCGCGTGCTGAAAGT
974 CAGACATCGTACGCACTCGGCATC GATGCCGAGTGCGTACGATGTCTG 975 TAGCCGCGCGGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCGCTA 976 GATGCCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		972	CTAAACGCCCTTGATGCATGAGCA	TGCTCATGCATCAAGGGCGTTTAG
975 TAGCCGCGCGCTCCTATGCTCTT AAGAGCATAGGAGCCGCGCGCTA 976 GATGCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		973	GCTTGCCTTTTACGATCGTCGCTA	TAGCGACGATCGTAAAAGGCAAGC
976 GATGCCTTTTGGTCCCCATGCCA TGGCATGGGGACCAAAAGGGCATC 977 TGAGCTGCCTCGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA	35	974	CAGACATCGTACGCACTCGGCATC	GATGCCGAGTGCGTACGATGTCTG
977 TGAGCTGCCACGATGCCTC GAGGCATCGTGGCAAGGCAGCTCA 978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		975	TAGCCGCGCGCTCCTATGCTCTT	AAGAGCATAGGAGCCGCGCGCTA
978 CCGCCGTATACGTGCCATAGTTTG CAAACTATGGCACGTATACGGCGG 40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		976	GATGCCCTTTTGGTCCCCATGCCA	TGGCATGGGGACCAAAAGGGCATC
40 979 TAGTGCTCTCCGCGCTCATCCAAC GTTGGATGAGCGCGGAGAGCACTA		977	TGAGCTGCCTTGCCACGATGCCTC	GAGGCATCGTGGCAAGGCAGCTCA
		978	CCGCCGTATACGTGCCATAGTTTG	CAAACTATGGCACGTATACGGCGG
980 CCCTAGATAAGTTGGGGTGGGACG CGTCCCACCCCAACTTATCTAGGG	40	979	TAGTGCTCTCCGCGCTCATCCAAC	GTTGGATGAGCGCGGAGAGCACTA
		980	CCCTAGATAAGTTGGGGTGGGACG	CGTCCCACCCCAACTTATCTAGGG

983 CGCACGGCTACTAACAGCGGATCA TGATCCGCTGTTAGTAGCCGTGCG 984 CCGGACCAATTCCAACGAGCATCG CGATGCTGTTGGAATTGGTCCGG 985 CATTGAGGTCCACCGGTTCACATCC GGATGTGAACGGTGACCTCAATG 986 AGGACGCAGCATGTCCAGCCGAG CTCGGCTGGGACGTGCTCCT 987 TAATCGCGGGCCATGCTCCAGCCGAG CTCGGCTGGGACATGCTCCCTG 988 CGCAAATTTCTCCGGTCGGCAAGC GTTGCTGATATGGCCCGCGATTA 988 CGCAAATTTCTCCGGTCGGCAAGC GTTGCCAGCCGGAGAAATTTGCA 989 GTGGCTCGACTAATGCCTTGCGTG CACGCAGGGACACCGCCCACA 989 GTGGTCGACTAATGCCTTGCGTT ACAGTGAGCCGGAACACGCCCACA 991 GTTCTTCCTTTTCTGCGGTGGAAA 992 ACCTCGAGTCAGATTGTGCGCTCT ACAGCAGAGAAAAGGAACACGCCCACA 993 CAAGTGGACAGATTGTGCCCCTT ACGCCCAGAAAAAGGAAAGAAC 992 ACCTCGAGTCAGATTGTGCCCCTT ACGCCCAGAAAAACCGTCTGCACTTG 994 TCCAGTTGAGTCGCGCCGACGAGG CTCGTCGCGCCACAATCTGAACA 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAGCGTCTGCACTTG 996 GCCGTGACTCGTGCACTGTTTTGC 997 ATCAGCGCAAAGTGCGCCGACGAGG CTCGTCGGCCGACCAAG 997 ATCAGCGCAAACGAGTGTCTGAACA TGTTTCAGACCAGCTTGCCG 998 ACGATCAAGACGACGCCTTATTTGC 998 CCCTGGCCAGAACGAACGACACCCTTG 998 CCCTGGCCAGAACGAACGACGCCTTATTTGC 998 ACGATCAAGAGACTGCTCTGACATTGCAGAGTCCTTGTCCC 1000 TTCATGGCACCAGAACGAACGCACCGTTA 1001 TACAGCAAGGACTGCCCTTGTTCTGCCCAGGG 1002 CGTAAATATCTGCGGCGGGTGTGAA TTACCGACATTCCTGCTTGTGCCATGAA 1001 ACAGCAAGGAATGGATTGCGACG CGCCACAAGACGAATCCATCTTCTTGCTGTT 1002 CGTAAATATCTGCGGCGGTGTGAA TTACCGCCCCGCAGAATTTTACG 1003 GGAAACACCTGTTCTGTTTGGC 1004 CGATGTTAGGGATTCGGACCACCGTTA TACCGTGTGTTTGCTGCTTGTTCC 1005 ATCGGACAAGGACAAGTTGCATGGTA TCCAACCCGCCGCAGATTTTACG 1006 GCCCGGAGGACAAGGTTGCAGCA TGGCCTATCCGAACCCGGTTTCC 1007 AAATCCGACAAGACGACACGTTTA TACCTCGCCTTTGCTCTTGCCGGT 1008 CAGTTAGGGATTCGAACTGC CTCTCCGACCCTTACCCGATTCCACCTTCCCGGC 1009 CGGCAGGTGGAATTCCAACTCC CCTCTCCGACCCTTACCCGACCCTTTCCCGCGCGCGAATTTTACCGACCCTTACCGAACCCCTCTACCTTTCCCCGCGCGCG				
983   CGCACGGCTACTAACAGCGGATCA   TGATCCGCTGTTAGTAGCCGTGCG   984   CCGGACCAATTCCAACGAGCATCG   CGATGCTGTTGGAATTGGTCCGG   985   CATTGAGGTCCACCGGTTCACATCC   GGATGTGAACGGTGGACCTCAATG   986   AGGACGCAGCATGCTCCAGCGAG   CTCGGCTGGGACGTGTGCTCCTGGTGGAATTGGTCCGGCTCATGGATTAGCAACG   CGTTGGTAGTATGGCCCGCGATTA   987   TAATCGCGGGCCATACTACCAACG   CGTTGGTAGTATGGCCCGCGATTA   988   CGCAAATTTCTCCGGTCGGCAAGC   GCTTGCCAACGGAGAAATTTGCCAGCGAGAAATTTCCAGCTGGACCAAGCACCACCACAGCGAAAAATTTCCCGGTCGCTCT   ACAGTGAGCCGGAACACGCCCACA   989   CTGGCTCGACTAATGCCTTGCGTCTT   ACAGTGAGCCGGAACACGCCCACA   991   TGTGGGCGTGTTCCGGGTCACTT   ACAGTGAGCCGGAACACGCCCACA   992   ACCTCGAGTCAGATTGTCGCGCTT   AAGGCGCACAATCTGACTCGAGGT   993   CAAGTGGACAGACGGTTTGTCCC   CGGAACAAACCGTCTGTCCACTTG   994   TCCAGTTGAGTCGGGCGACGAGG   CTCGTCGGGCGACCAATCTGACCTGTGCA   995   CGCAACAGTCAGCCCTTATTTGC   GCAAATAAGCGGTCACACTGGA   997   ATCAGCGCAAAGTGCACGCCTTATTTGC   GCAAATAAGCGTCTGCACTGG   997   ATCAGCGCAAACGTGTGCACACTGTCACTGGAACA   TGTTTCAGACCAGCTTGCACGGC   999   ACGATCAACGTGTGCAGAACGACACCCTTTA   TAACGGTGGTCTTGTGCCACGGC   999   ACGATCAAGAGAACGACACCGTTA   TAACGGTGGTCTTGTGCCACGGG   999   ACGATCAAGAGAACCACCGGTTA   TAACGGTGGTCTTGTGCCACGGG   999   ACGATCAAGAGAACCACCGGTTA   TAACGGTGGTCTTGTGCCACGGG   1000   TTCATGGCACAGAACCACCGGTTA   TAACGGTGGTCTTGTGCCACAGA   1001   ACAGCAAGGAATGGATTGCGACC   CGTCGCAATCCATCTCCTTGCTGTTCC   1002   CGTAAATATCTGCGCGCGGTGTGAA   TTCACACCGCCGCAGAATTTTACG   1002   CGTAAATATCTGCGCCAGAGTTGCACCACCGTTA   TAACGTGTGCCATGCACACACCACGTTTCC   1004   CGATGTTAGGGACAAGGACAAGTGGATTGCACCACCACCACTTTCCTTGCTGTTTCCCCGGCCACAAGAACAACACACCACGTTTTCC   1004   CGATGTTAGGGACAAGGACAAGTGGATTCCAACACCACCTTTTCCTTGCCGAT   1005   ATCGGACAAGAGCAAAGTGGATTGCACCACCCTTACCGAACCACCCTTTTCCCCGGCCACAATACCACTCTCCCTTACCTGACCACCCTTACCCGAACACACCACGTTTCCAACATCCCCTAACTCCACCCTTACCCGAACACCACCACGTTTCCAACATCCCCTTAACCCACCC	•	981	TGAAGGCCACCTGATATGGTTTC	GAAACCATATCAGGTGGCCCTTCA
884 CCGGACCANTTCCAACGAGCATCG CGATGCTCGTTGGAATTGGTCCGG 985 CATTGAGGTCCACCGTTCACATCC GGATGTGAACGGTGGACCTCAATG 986 AGGACGCAGCATGTCCCAGCCGAG CTCGGCTGGACCTCAATG 987 TAATCGCGGGCCATCTACCAACC CGTTGGTAGTGTGCTCGCGCTGGAACATTTCCCGGCTCGCAACCACCGCGATTA 988 CGCAAATTTCTCCGGTCGGCAACG CGTTGGCACCGGAGAAATTTGCG 989 GTGGCTCGACTAATGCCTTGCGTG CACGCAAGCCATAGTCCGACCCACA 981 GTTCTTCCTTTCTCGGTGGAAC GCTTCACCACCGCAACACCCCCACA 991 GTTCTTCTTCTCGGTGGGAA TTCCCACCGCAGAAAAGGAACAC 992 ACCTCGAGTCAAGATTGTGCGCCTT ACAGTGAGCCGGAACACGCCCACA 993 CAAGTGGACAGACTTTGTTCCG 994 TCCAGTTGAGTTGGCGCCTT AACAGTGAGCCGAAAAAGGAACAC 995 CCACAACAGGTCAGCCTTATTTCC 994 TCCAGTTGAGTCGGCCTTAAACACACCTCTGGACCGAAAAAACCGTCTGTCCACTTG 995 GCCGTGACTCCTGCAATGTCGGAA 997 ATCAGCGCAACACGCCTTATTTCC 998 CCCTGGCCAAACAGCCACTTAGTTCCGACATCTGAACCTGGAG 997 ATCAGCGCAACCTGGTCTGAAACA TGTTTCAGACCAGGTCACGGC 998 ACGATCAAGGACCACCGTTA TACCGACATTGCGCAGGCCCACAC 999 ACGATCAAGGACCACCGTTA TACCGACATTGCGCCAGGA 999 ACGATCAAGGACCACCGTTAA TACCGACATTGGTCCCCAGCG 999 ACGATCAAGGACCACCGTTAA TACCGACATTCGTGCCCAGGG 1000 TTCATGGCACCAAGACCACCGTTA TAACCGTCGACAGTCCTTGGTCC 1001 CCGTAAATATCTGCGACC CGTCGCAATCCATCTCTTGTGTC 1002 CGTAAATATCTGCGACG CCTCGCCAATCCATCCTTCTTGTGT 1003 GGAAACACGTGTTCGTCTTGAACC 1004 CGATGTTAGGAACACCCCGTTAA 1005 GCCCGGAGGACAACACGTGTTA TAACCGCCCGCAATATTTACC 1004 CGATGTTAGGAATGGCAC CGTCGCAATCCAATCTCATCTTCCTGTGT 1004 CGATGTTAGGAATGGCAC CGTCGCAATCCAATCTCATCTTCCTGTGT 1004 CAGCAAAGGACAAAGTTCGAATGT AACCTCAACATCCAATCTTCCTTGCTGT 1006 CCCGGAGGACAAAGTTCGAATTG TAACTCGAACTTTGTCCTCCGGGC 1007 AAATCCGACAATGGGAATGAGTAA TCCAACCTGCCCATTCCTCTTGTCCGAT 1008 CACTTTAGCAAATCGGCCA CGCGCAATCCAATCCTAACATCC 1007 AAATCCGACAATGGGAATGAGTGA TCCATCTCCCCAATCCTTAACACCT 1008 CACTTAGCGAATTCCAACATTG CAATCTCCACCTTTGCTGCCA 1009 CGGCAGGGGAGATCCACACTGGAT TAACTCCACCTTGCCCGAATTTTCCCCCACACCTGCCGCGAATTTTCCCACACCTGCCGCGAATTTTCCCACACGCCTTAATTCCGCCACTTCCCCCAACACGGAACACACGTGAATTCCACCCTACCGCAATTCCACCGCCCTAAATTCCGCCCTAAATTCCGCCCTAACTTCCTCTCGCACACCTGTAATTCCGCCTCATTTCCTCCACACGGGAACACACGGGAATCACACGGCTCCATTTTTAATCACCTGCCCCTAATTTCCCCCCACCTGTAATTCCGCCCTCATTTCCTTGCCC		982	GCCGCCTCCGACTGGTTAACCCGA	TCGGGTTAACCAGTCGGAGGCGGC
5 985 CATTGAGGTCCACCGTTCACATCC GGATGTGAACGGTGGACCTCAATG 986 AGGACGCAGCATGTCCCAGCCGAG CTCGGCTGGACATGCTCCGTCCT 987 TAATCGCGGGCCATACTACCAACG CGTTGGTAGTATGGCCCGCGATTA 988 CGCAAATTTCTCCGGTCGGCAACC CGTTGCCGACCGGAGAAAATTTGCA 989 GTGGCTCGACTAATGCCTTGCGTG CACGCAAGGCATTAGTCGAGCCAC 989 TGTGGGCGTGTTCCGGCTCACTGT ACAGTGAGCCGCACACACACACCGCCACA 991 GTTCTTCCTTTTCTCGCGTGGGAAA TTCCCACCGCAGAAAAAGGAAGAC 992 ACCTCGAGTCAGATTGTCCGCTT ACAGTGAGCCGACAAAAAGGAAGAAC 992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCCCACAAAAAGGAAGAAC 992 ACCTCGAGTCAGATTGTTCCC CGGAACAAACCGTCTGCCACTG 993 TCCAGTTGAGTCGGCCGACGAGG CCTCGTCGGCGCGACTCAACTGGA 994 TCCAGTTGAGTCGGCCGACGAGG CCTCGTCGGCGCGACCAACCGTTGCACTGGA 995 GCCAACAAGCGTTTGTTCCC 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTCGACCTGTGCG 997 ATCAGCGCAGACCAGACGGCCTTATTTGC 998 CCCTGGCCAGAACAAACA TGTTTCAACCCAGCTGCCCAGG 999 ACGATCAAGGACCACCGGTTG CAACCACACGATTCGCGCTGAT 998 CCCTGGCCAGAACAAACA TGTTTCAACCCAGCTTCGCGCTGAT 998 ACGATCAAGGACAGACGGCCATG CAACCCTGCCTTCGGCCCAGG 999 ACGATCAAGGACCACCGTTA TAACCGGCACTCTCTGCGCTGAG 1000 TTCATGGCACCAGAACCACCGTTA TAACCGTGGCTCTTTTGCCCAGGA 1001 ACAGCAAGGACTGCTTGAAACA TGTCACACCACGAGTCCTTTCGCTGTG 1002 CGTAAATATCTGCGGCGGTGTGAA 11001 ACAGCAAGGACAGACCACCGTTA TAACCGTGGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA 11003 GGAAACACGTGTTCGTCTTGTTGCC 1004 CGATGTTAGGATTCGGATAGGCCA 1005 ATCGGACAAGGACAAGTGGATTTTCC 25 1005 ATCGGACAAGGACAAGTGGATTTACCACCTCCGAATCCTACCATCC 1006 CGCCGGAGGACAAAGTTCGAACTTG 1007 AAATCCGACAAAGGACAAGTGGATTA 1008 CAGTTTAGGGATTCGAATTTG CAATCTCACTTTGCTCCGAT 1009 CGCCAGAGGACAAAGTTCCGAACTTG CAATGTCCCAATTTGCCCCTAACTGC 1001 ACAGCCAGAGACAAGTTCCAACTTG CAATCTCACCTTGCCCTTGCTGCCTATTGCTCCCTAACTTCCCTGCCGGC 1011 ACGCCCGAATTCACAGGACCCCCCCCCCCCCCCCAACTTTTGCCCCCTAACTTCCCCTACTGCCCTAACTTCCCCCTAACTTCCCCCCCC		983	CGCACGGCTACTAACAGCGGATCA	TGATCCGCTGTTAGTAGCCGTGCG
986 AGGACGAGCATGTCCCAGCCGAG CTCGGCTGGACATGCTGCGTCCT 987 TAATCGCGGGCCATACTACCAACG CGTTGGTAGTATGGCCCGCGATTA 988 CGCAAATTTCTCCGGTGGCAAGC GCTTGCCGACCGGAGAAATTTGCG 989 GTGGCTCGACTAATGCCTTGCGTC CACGCAAGGCATTAGTCGAGCCCACA 981 GTTCTTCCTTTTCTGCGGTGGCAAGC ACAGTGAGCCCCACA 991 TGTGGGCGTGTTCCGGCTCACTGT ACAGTGAGCCGGAACACGCCCACA 991 ACCTCGAGTCAGATTGTGCGCTCACTGT ACAGTGAGCCGGAACAACGCCCACA 992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCGCACAAACGGAAGAAC 992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCGCACAATCTGACTCGAGGT 993 CAAGTGGACAGACGGTTTGTTCCC CGGAACAAACCGTCTGTCCACTTG 994 TCCAGTTGAGTCGCGCCGACCAAG 995 CCCAACAGGCCTTATTTGC CCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCATGCCTTTATTTCC GCAAATAAGGGCTGACCTGTTGCG 997 ATCAGCGCAAGCCTTATTTGC GCAAATAAGGGCTGACCTGTGCG 998 CCCTGGCCAAGACGAACCAACCATTCCATGCGCGCGACTAACACA 998 CCCTGGCCAAGACCAACCATGCAACA TGTTTCAGACCAGCTTTGGCG 999 ACGATCAAAGGACTCGTCAAGACA TGTTTCAGACCAGCTTTGGCG 999 ACGATCAAAGGACTCGTCAAGACA TCTTTCAGACCAGCTTTGGTCGTA 1000 TTCATGGCACCCAAGACCACCGTTA TAACCGACATTCCTTGGTCGTGT 1001 ACAGCAAGGAGATCACCGTTA TAACCGACCGCCAGATACTTTCTTG 1002 CGTAAATATCTTGCGGCGGTGTGAA TTCACACCGCCCCAGATACTTTCCTGTT 1003 GGAAACACGTGTTCGTTGTTGGC CCCAACAGACCAACCAGTTTTTCC 1004 CGATGTTAGGATTAGGCACA TGGCCTATCCATTCCTTGCTGTT 1005 ATCAGGACAAGGACAAGTTCGATTGGT 1006 GCCCGGAGACAAAGTTCGAGTTGA TCACTCACTTTGCTTGTCCTGTC 1007 AAATCCGACAAAGGACAAGTTCGATTGA TCACTCACCTTGCCTTG		984	CCGGACCAATTCCAACGAGCATCG	CGATGCTCGTTGGAATTGGTCCGG
987 TAATCGCGGGCCATACTACCAACG 988 CGCAAATTTCTCCGGTCGGCAAGC 989 GTGGCTCGACTAATGCCTTGCGTG 989 GTGGCTCGACTAATGCCTTGCGTG ACAGCAAGGCATTAGTCCACTGT ACAGTGAGCCGAAAAAGGAAAAAGGAAAAAGAAAAACCGTCTTTCTCTCGAGTGGGAA 990 TGTGGGCGTGTTCCGGCTCACTGT ACAGTGAGCCGGAAAAAGGAAAAAGGAAAAACAGGTCAACACGCCACAA 991 ACTCCGAGTCAAGTTGTGCGCCTT ACAGTGAGCCGAAAAAGGAAAAACACGTCTACCACTGT 983 CAAGTGGACAGACGGTTTGTTCCG 984 TCCAGTTGAGTCGAGCCGAAAAAACACGTCTGACTGTGCAACTTGACTCGAGGT 985 CAAAAAACAGTCAACCGCCTAATTTTCC 986 GCCGTGAACCAAGGTCAGCCCTTATTTTCC 987 ATCAGCGCAAACTGCACCTTTATTTCC 988 CCCTGGCACAAGTTCGGACAACACGGAGG 989 ACGATCAAGGACACACTGGAACAACACGGTCAACTGGAA 998 CCCTGGCACAACATGTCGGTA 998 CCCTGGCAAACAACAACAACAACACGTCTTCGCACTGGA 999 ACGATCAAGGACAACAAACAACAACACACGTTTCGACGGTAACAACAACAACACAACACAACACAACAACAACAACAAC	5	985	CATTGAGGTCCACCGTTCACATCC	GGATGTGAACGGTGGACCTCAATG
988 CGCAAATTTCTCCGGTCGGCAAGC GCTTGCCGACCGGAGAAATTTGCG 989 GTGGCTCGACTAATGCCTTGCGTG CACGCAAGGCATTAGTCGAGCCAC 991 GTTCTTCCTTTTCTGCGGTGGAAA TTCCCACCGCGAGAAAAGGAACACGCCCACA 991 GTTCTTCCTTTTCTGCGGTTGGAAA TTCCCACCGCAGAAAAGGAACACACGCCCACA 992 ACCTCGAGTCAGATTTGTGCGCCTT ACAGTGAGCCGACAAAAGGAACACACGTCTGAGGT 993 CAAGTGGACAGACGGTTTGTTCCG CGGAACAAACGGACCACAATCTGACTCGAGGT 394 TCCAGTTGAGTCGGCCCGACGAGG CCTCGTCGGGCGGACCACAACTGGACTCGAGGT 15 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACGGC 997 ATCAGCGCCAGACTGGTCGAAACA TGTTTCAGACCACGTTGCGCTGAT 998 CCCTGGCCAGAACGAGGCCATG CATGGCCTTCTGTCGCCAGGC 999 ACGATCAAGGACTCGTCAGAACA TGTTTCAGACCACGTTTGGCCCAGGG 999 ACGATCAAGGACTCGTCAGAACA TGTTTCAGACCACGTTTGATCGG 998 CCCTGGCCAGAACGAGGCCATG CAACCCTGACGAGTCCTTGATCGG 999 ACGATCAAGGACTCGTCAGAACA TGTTTCAGACCACGTCTTTCTGCCCAGGA 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTTGGTCCATGAA 1001 ACAGCAAGGACTCGTCAGAGCCA TCACCCTTGCCAGTCTTTTTGTCGCCATGAA 1002 CGTAAATATCTGCGGCGGTGTGAA TCCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTTTTTGGC 1004 CGATGTTAGGATTCGGATAGGCCA TGCCCTATCCCGAATCCTAACATCC 1004 CGATGTTAGGATTCGGATAGGCCA TGCCCTATCCGAATCCTAACATCG 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACCTTGTCCTTGCCGAT 1007 AAATCCGACAAATTGGGCAATGGA TCCATTCCGCATCCCTAACATCG 1008 CAGTTAGGGGATCAGATTAGATTC 1009 CGGCAGGTGGAGATTCCGACATTGA TCCATCCCCTTTGCCGGC 1010 TAGGGCAGCCAGGTTCACTCACTCTTC CAATGCCCACTTGCCCTAACTTG 1010 TAGGGCAGCCAGGTTCACTCACTCACTCTC 1011 GCACCGTATTAGAGTTGGAGTAGGA TCCCTTTCCGCACCCTAACTTG 1011 GCACCGTATTCAGAGTTTCCACACTCG CATGCCCTAACTTG 1012 ACGCATTACAGGTCTGCACACTTG CAATGTCCACCTGCCG 1013 CGTGACTGCACGTTTCCACAGGG CCCTTGTGGAACCTTGCTATTCCGGTGC 1014 GCACCGCAGGGAGGAACACGG CCCTTGTGAACCTGGCTGCATTCCCTCACTTCCCACTGCCG 1014 GCTGAACTACCGCCTAAATCGCG CCCTGTGGAACCCCATTCCCTCACTTCACT		986	AGGACGCAGCATGTCCCAGCCGAG	CTCGGCTGGGACATGCTGCGTCCT
988 GTGGCTCGACTAATGCCTTGCGTG  990 TGTGGGCGTGTTCCGGCTCACTGT ACAGTGAGCCGGAACACGCCCACA  991 GTTCTTCCTTTTCTGCGGTGGGAA  992 ACCTCGAGTCAGATTGTGCGCTT ACAGTGAGCCGAACAACGACCCCACA  993 CAAGTGGACAGAGTGTTGTCCC GGAACAACACCGTCTGTCCACTTG  993 CAAGTGGACAGAGGTTTTTCC GGAACAAAACCGTCTGTCCACTTG  994 TCCAGTTGAGTCGGCCGACGAGG CCTCGTGGGCGGACTCAACTGGA  15 995 CGCAACAGGTCAGCCCTTATTTGC GGAACAATAACGGTCAGCTTGTCGC  996 GCCGTGACTCCTGCAATGTCGGTA  16 998 GCCGTGACTCCTGCAATGTCGGTA  997 ATCAGCGCAAGAGGAGGCCTTTATTTGC GCAAATAAGGGCTGACCAGGG 997 ATCAGCGCAAGACGAAGGAGGCCAT  998 CCCTGGCCAGAACGAAGGAGGCCAT  999 ACGATCAAGGACCACGTTGAAACA  999 ACGATCAAGGACTCGTCAGAACA  1000 TTCATGGCACCAAGAGCAGGTTG CAACCCTGACGAGTCTTTGGCCAGGG  999 ACGATCAAGGACTCGTCAGAACA  1001 ACAGCAAGGAGAGCCATTG CATGGCCTCTTGGTTCGTCT  1002 CGTAAATATCTGCGGCGGTGTAA  1003 GGAAACACGTGTTTGGCCAC  1004 CGATGTTAGGATTGGCAC  1005 ATCGGACAAGGAGGCATG CCCAGCAGAACGAACGAACGAACCACCTTA  1006 GCCCGGAGGACAAAGTGGCAA  1007 AAATCCGACAAAGTGGATAGGCA  1006 GCCCGGAGGACAAAGTGGATAGGCA  1007 AAATCCGACAAATGGGCAA  1008 CAGTTAGGGGACAAATGGGAATGT ACCTCACTTTGCTTTG		987	TAATCGCGGGCCATACTACCAACG	CGTTGGTAGTATGGCCCGCGATTA
10 990 TGTGGGCGTGTTCCGGCTCACTGT ACAGTGAGCCGGAACACGCCCACA 991 GTTCTTCCTTTTCTGCGGTGGGAA TTCCCACCGCAGAAAAGGAACAC 992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCGCACAAATCTGACTCGAGGT 993 CAAGTGGACAGACGGTTTGTTCCG CGGAACAAACCGTCTGTCCACTTG 994 TCCAGTTGAGTCGCGCCGACGAGG CTCGTCGGCGCGACATCTGACTGACTGG 995 CCGCACAAGGTCAGCCCTTATTTGC GCAAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGCTGACTGGA 997 ATCAGCGCAAACGAGAGGCCATG CAACACCAGCTTGCGCTGAT 998 CCCTGGCCAGAACGAGAGGCCATG CATGCCACATGTCGACGGC 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGGTCGTA 1000 TTCATGGCACCAGAGCACACCGTTA TACCGACATTCTGGTCCATGAA 1001 ACAGCAAGGAGACCACCGTTA TACCGACATCCTTTGTGTCCATGA 1002 CGTAAATATCTGCGGCGTGGAA TTCACCACCGCGCAGATCCATTCTGCTT 1003 GGAAACACGTTGTCGGTTGGC CGTCGCAATCCATCTTTCTGCTT 1004 CGATGTTAGGATTCGGATTAGGC CGCCACAACGACCACGTTTTCC 1005 ATCGGACAAGGACAAGTGGATTGGT ACCATCCACTTGCTTTTCCGAT 1006 GCCCGGAGGACAAAGTCGATTAGT TACCTGACACTTTTCCTTTGCGT 1007 AAATCCGACAAATGGGCCAA TGCACTCCACTTTGCTGTT 1008 CAGTTAGGGATAGGCCA TGCCATCCACTTGCCCTAACTG 1009 CGGCAGGTGGAATCCATCCACTTTGCCCCATTTTTCCGATT 1008 CAGTTAGGGGACAAGTCGACTTGA TCCATCCCCATTTTTCCGATTT 1008 CAGTTAGGGGACAAGTCGACATTG ACCATCCACTTTGTCCTTGCGTT 1009 CGGCAGGTGGAATTCCACACTTG CAATGTCCCACTTCCCCACTCCCCG 1010 TAGGGCAGCCAGGTTCACTCATT AACCTCCACTTCCCCACCTCCCG 1011 GCACCGTATTAGCAGTTGACCACTTTGCACCTTCCCCCACCTCCCCTAACTG 1012 ACGCATTATAGCAGTTGGCACACTT AACCTCCACCTGCCCCTAACTG 1013 CGTGACTGCACGGTTCACTCATCT AACTCCCACTCCCCCTAACTG 1014 GCACCGTATTAGCAGTTGACCACTTTC AACTGTCCCACCTGCCCCTAACTG 1015 AGCACCGCACGGGTTCACTCATCT AACTGCGAACCCTGCATCCCCTAACTG 1016 ATGAGGGCACCAGGTTCACTCATCT AACTGCGAACCCTGCAGTCACGGT 1017 AGGGCACCAGGTTCACTCATCT AACTGCGAACCCTGCAGTCACCCTTAATCGCACCTTAATCAGCTTCACCCCTAACTG 1017 AGGGCACCAGGGTTCACCACCTTAATCAGCTTCACCCCTAACTG 1017 AGGGCACCAGGGAGAATCACGGCCACCCTGAATACCCCCTTAATTCGCACCCCTAACTG 1017 GGGTCTCTCGAACACCCTAACTGC CCCCTACTGCCTACTCCTCCTCCCTGCCCCATACTCGCCCCAACCCCTGAAAATCGCC CCCCAGGAGGAACACCCTCCCATTTAACCAGCCCAACCCCTCCATTAACCCCCTTAATTCACAAGGCCCAACCCCCAGGAGGAACACCCCCCCAACCCCCC		988	CGCAAATTTCTCCGGTCGGCAAGC	GCTTGCCGACCGGAGAAATTTGCG
991 GTTCTTCCTTTTCTGCGGTGGGAA TTCCCACCGCAGAAAAGGAAGAAC 992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCGCACAATCTGACTCGAGGT 993 CAAGTGGACAGACGGTTTGTTCCG CGGAACAAACCGTCTGTCCACTTG 994 TCCAGTTGAGTCGGCCCGACGAGG CCTCGTCGGCGCGACTCAACTGGA 15 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAAGGCTGACTGTGCACTTG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGACGACGACGACGACGACGACGACGACGACGACGAC		989	GTGGCTCGACTAATGCCTTGCGTG	CACGCAAGGCATTAGTCGAGCCAC
992 ACCTCGAGTCAGATTGTGCGCCTT AAGGCGCACAATCTGACTCGAGGT 993 CAAGTGGACAGACGGTTTGTTCCG CGGAACAAACCGTCTGTCCACTTG 994 TCCAGTTGAGTCGCGCCGACGAGG CCTCGTCGGCGCGACTCAACTGGA 15 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACGGC 997 ATCAGCGCAAGACGAGGGCCATG CATGGCACCAGCTTGCGCTGGC 998 CCCTGGCCAGAACCAGGGCCATG CATGGCCTCTCGTTGCGGCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCATCGGT 1000 TTCATGGCACCAAGACCACCGTTA TAACCGTGGTCTTGGTCCATGAT 1001 ACAGCAAGGAGAGCCACCGTTA TAACCGTGGTCTTGGTCCATGAA 1001 ACAGCAAGGAGAGCCACCGTTA TAACCGTGGTCTTGGTCGTTGT 1002 CGTAAATATCTGCGGCGGTGGAA TTCACACCGCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCATCTCTTGCTGT 1005 ATCGGACAAGGACAAGTGGATTGC 1006 GCCCGGAGGACAAAGTCCACTGTT ACCACCGCCGCAAGAACACCTGTTTCC 1007 AAATCCGACAATGGGCACATGGA TCCATCCACTTTGTCCGGTC 1008 CAGTTAGGGGACAAAGTCGAGTTA TAACTCGAACTTTGTCCTTGCGGT 1009 CGGCAGGAGACAAAGTCGAGTTA TAACTCGAACTTTGTCCTGACGGC 1009 CGGCAGGTGGAAGTCGGATTGAGT TAACTCGAACTTTGTCCTCCGGGC 1009 CGGCAGGTGGAATCCACTGGA TCCACTGCCCCTTAACTG 1009 CGGCAGGTGGAATCCCACATTG CAATGTCGGAATCCCCCTAACTG 1010 TAGGGCAGCCAGGGTTCACTCATCT AGATGAGAACACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTTACTCACTCT AGATGAGAACACCTGGCTGCCCTA 1012 ACGCATTACAGGTTCCACAGGG CCCTTTGCACACCTGCACCCTTAACTGC 1013 CGTGACTGCACGTTTCCACAGGG CCCTTTGGCAACACCTGAATACGGT 1014 GCTGAACTACCGCCTAAATCGCG CCCGGATTTAAGGGTGATCACG 1015 AGCACGCCAGGAGGAATCACACGC GCCGTGCCTAATTGCGT 1016 ATGAGGGCAAGGAATCGAGTTA TAACTCGAACCTGCAGTGATCAGC 1017 GGGTCTCCTGTAATCAAAGGCCGA TCGCCTTTGATTACGGTGCT 1016 ATGAGGGCAAGGAATTGACCCCATTTAATCGAGTCACCC 1017 GGGTCTCCTGTAATCAAAGGCCGA TCGCCCTTTGATTACGAGTAATCAGCT 1018 TATCTTTGCGCAAGCCTCCATTTA TAAATTGAACGGCTGATTACGGTGCTAATTACGGTGCTAATCAGCCCTAATTCCGCCCCAAGATAATCAGCCCAACCTGTAATTCAGAGGTCAACCCCTTAATTCAGCAGAGAACCCCTTAATTCAGCGCAACCTGCCCTAATTCCTTGCCCTCAT 1016 ATGAGGGCAAGGAATCGAGTTA TAAACTCGATCCTCCCTGCGTGCTAATCAGCCCAACCTGCAATCACCCCAACCCTGTAATCCACCCCAACCCTGAATCACCCCAACCCTGCAATTACCGCCAACCTGCGGTGTAATCAACCTCACCGGAATCCACCGGAATCCACCGGATTACCCACCAACCTGGCGGTATACCAACCT	10	990	TGTGGGCGTGTTCCGGCTCACTGT	ACAGTGAGCCGGAACACGCCCACA
993 CAAGTGGACAGACGGTTTGTTCCG CGGAACAAACCGTCTGTCCACTTG 994 TCCAGTTGAGTCGCGCCGACGAGG CCTCGTCGGCGCGACTCAACTGGA 15 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACCGGC 997 ATCAGCGCAAGCTGGTCTGAAACA TGTTTCAGACCAGCTTGCGCTGAT 998 CCCTGGCCAGAACCAGAGGCCATG CATGGCCTCTCGTTCTGGCCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGATCGT 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGCTCTTGGTCCATGAT 1001 ACAGCAAGGAATTGCGACG CGTCGCAATCCATCCTTTGATCGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTTTGTGC GCCAACAGACCACGTTTTCC 1004 CGATGTTAGGATTCGGATGGCCA TGGCCATCCAACACACTGTTTCC 1005 ATCGGACAAGGACAAGTTCGACTT ACCTCCACTTGTCCTTGCCGAT 1006 GCCCGGAGGACAAAGTTCGACTTA TAACTCGAATCCTTACATCGA 1007 AAATCCGACAAATGGGCAC TGGCCTATCCGAATCCTAACATCG 1008 CAGTTAGGGACAAAGTTCGACTTA TAACTCGAACTTTGTCCTCCGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATCCACTTGTCCGAT 1008 CAGTTAGGGACAAAGTTCGACATTG TAACTCGAACTTTGTCCTCCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATCTCCCCTTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTGCCCATTTTTCCCGAT 1009 CGGCAGGTGGAGATTCCGACATTTG CAATGTCGGAATCCCCCTAACTG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACCG GCGTGCCTACTGCTAATACGGTG 1012 ACCACTTACAGGTGTCACACAGGG CCCTTGGCAACACGTGCACCGGTACTG 1013 CGTGAACTACCGCCTAAAATCGCG CCCTGGGAACACGTGCACGTACACG 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGGGAACACGTGCACGTACACG 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGGGAACACGTGCACGTACACG 1016 ATGAGGGCAAGGAATGGGTCATCGC GCGATTTTAGCGGGTGTTCACC 1017 GGGTCTCTCGTAATCAAGGCCCGA TCGCCTTTTGTCTTGCCCTCAT 1016 ATGAGGGCAAGGAATGGGTCATCG GCCTTTCTTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAGGCCCGA TCGGCCTTTTCATTACCGGTGTTCACTCCCTTTTCTTTGCCCCTCAT 1018 TATCTTTCCGCACACCCTTCATTTA TAACTCGACCCATTTCCTTTGCCCCTCAT 1019 GGTTACACCTACCGGATCACGG CCCTTGGATTCCGTAAGGAACCC 1018 TATCTTTCCGCACACCCTCCATTTA TAAATGGAGGCGTTCCCCTCAT 1019 GGTTACACCTACCGGATCACGGG CCGCGTTTCATTCCTTGCCCTCAT 1019 GGTTACACCTACGGATCCCGTTTTA TAAATGGAGGCTTTCCGCAAGATA		991	GTTCTTCCTTTTCTGCGGTGGGAA	TTCCCACCGCAGAAAAGGAAGAAC
15 PSS CGCAACAGGTCAGCCCTATTTGC GCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACCGCC 997 ATCAGCGCAAGCTGGTCTGAAACA TGTTTCAGACCAGCTTGCGCTGAT 998 CCCTGGCCAGAACCAGAGGCCATG CATGGCCTCTCGTTCTGGCCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCTTGGCAGGG 1000 TTCATGGCACAAGACCACCGTTA TAACGGTGGTCTTGGTGCATGAT 1001 ACAGCAAGGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAT 1002 CGTAAATATCTGCGGCGGTGGAA TTCACACCGCCGCAGATCCATCCTTGCTGT 1003 GGAAACACGTGTTCGTCTGTTGGC 1004 CGATGTTAGGATTGGACG CGTCGCAATCCATCTCTTTGCTG 1005 ATCGGACAAGGACAAGTGGATGG 1006 GCCCGGAGGACAAGTGGATGGA TCCAACAGACGAACACGTGTTTCC 1007 AAATCCGACAAAGTGGATGG ACCACCACTTGTCCTTGTCCGAT 1008 CAGTTAGGGGATGCAATGGA TCCATGTCCTTGTCCGAT 1009 CGGCAGGGAACAAGTTCGACTTA TAACTCGAACTTTGTCCTCAGGG 1009 CGGCAGGTGGAATTCCGACATTG CAATGCCATCCCCTAACTG 1009 CGGCAGGTGGAATTCCGACATTG CAATGCGAATCCTAACTG 1010 TAGGGCAGCCAGGTTCACTCATC AGATGGAACACTGGCCCTAACTG 1011 GCACCGTATACAGGTTCACTCATC AGATGAACCTGCCCTAACTG 1012 ACGCATTACAGGTTGACCACACG CGCTGCCTAATCCGTACTG 1013 CGTGACTGCACAGGACAAGTGCACCC GCGTGCCTACTGCCCTAACTG 1014 GCTGAACTACAGGTGGAACCACGGGCCCACCCTGCAGTTCACCCTTACCG 1015 AGCACGCCAGGGTGCACACGC CCCTTGGCAACACCTGTAACGGTGC 1016 ATGAGGGCAAGGACAAATCGCG CCCTTTGACTGCACTTCACCTTACCGCTTCACCGACACCTGTAATACCGTTCACCGCAACCCTGAACACCTGCAACACCTGCAACCTGCACTCACCGCAACACCTGCAACACCCTGAACACCCTAACACCTGCAACACCTGCAACACCTGCAACACCTGCAACACCCTAACACCCTAACACCCTAACACCCTAACACCCTAACACCCTAACACCCTAACACCCCTAACACCCTAACACCCTGAACACCCTGCAACACCCTGCAACACCCTGCAACACCCTGCAACACCCTGCAACACCCTGCAACACCTGCAACACCCTAACACCCCTAACACCCTAACACCCCCCCAACCCCTCCATTAAAACGGCCAACCCCCCCC		992	ACCTCGAGTCAGATTGTGCGCCTT	AAGGCGCACAATCTGACTCGAGGT
15 995 CGCAACAGGTCAGCCCTTATTTGC GCAAATAAGGGCTGACCTGTTGCG 996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACGGC 997 ATCAGCGCAAGCTGGTCTGAAACA TGTTTCAGACCAGCTTGCGCTGAT 998 CCCTGGCCAGAACGAGGGCCATG CATGGCCTCCGTTCTGGCCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGATCGT 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA 1001 ACAGCAAGGAGATGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGAACACGTGTTTCC 1004 CGATGTTAGGATTCGGATAGCCA TGCCCTACACATCCAACTCGA 1005 ATCGGACAAGGACAAGTGGATTA TAACTCAACTCTGCTTGTCCGAT 1006 GCCCGGAGGACAAAGTGCAATTA TAACTCAACTTGTCCTTGTCCGAT 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCCGGATT 1008 CAGTTAGGGGATGCGGATGAGT TCACTCACTTCCCCAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGCCAATTCCACCTGCG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGCCAATCCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGCACATCCCCCTAACTG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTAACTGCGCTAACTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCAACCTGCTCACCTG 1013 CGTGACTGCACGTGTTCCACAGGG CCCTTGGAACACCTGGTGCCCTA 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGTGGAACACGTGCAGTCACG 1015 AGCACGCCAGGGAGGATCAAGGTTA TAACTCGACCCTTTATACGCGT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTTCCCCTTACTC 1017 GGGTTCTCCGTAATCAAAGGCCGA TCCGCCTTTGATTACGAGGAGCCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTCCCCTCAT 1019 GGTTACACCTACGGAATCCAGCGG CCCCTTGGATTCCGTAAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTCCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCCCTGGATTCCGTAAGCCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTCCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCCCTTGGATTCCGTAGGTGTAACC 1019 GGTTACACCTACGGAATCCAGCGG CCCCTTTGATTCCGTAGGTGTAACC 1019 GACACCGAGGTTGGTCCAGGGG CCCCCTGTGATTCCGTAGGTGTAACC 1019 GGTTACACCTACGGAATCCAGCGG CCCCTTTGATTCCGTAGGTGTAACC 1019 GGTTACACCTACGGAATCCAGCGG CCCCTGTGATTCCGTAGGTGTAACCCAACTCGGTGTTAACCCCAACTCGGTGTAACCCAACTCGGGGTTAACCCAACTCGGTGTAACCCAACTCGGTGTAACCCAACTCGGGGGTTCC		993	CAAGTGGACAGACGGTTTGTTCCG	CGGAACAAACCGTCTGTCCACTTG
996 GCCGTGACTCCTGCAATGTCGGTA TACCGACATTGCAGGAGTCACGGC 997 ATCAGCGCAAGCTGGTCTGAAACA TGTTTCAGACCAGCTTGCGTGAT 998 CCCTGGCCAGAACGAGAGGCCATG CATGCCTCTCGTTCTGGCCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGATCGT 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA 1001 ACAGCAAGGAGTCGGTTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTTGGC GCCAACAGACCACGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTACAATCCTCACATCG 1005 ATCGGACAAGGACAAGTGGATAGGT ACCATCCAATCTTGCTGT 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGCCTCCGGCG 1007 AAATCCGACAATGGGCAATTCAACATCG 1008 CAGTTAGGGATAGGCAATTCAACATTGTCCTCCGGGCC 1009 CGGCAGGATGAGATGAATTCCAACTTGTCCCAACTGTCCCCAACTGTACACTG 1009 CGGCAGGAGAATGGCAAATTGCAACATTGCAACTTTGTCCTCCGCGC 1001 TAGGGCAGCCAGGTTCACTCATCT AGATGTCGGAATCTCCACCTGCCG 1011 GCACCGTATTACCAGTAGGCACGC GCGTGCCTAACTGGCTGCCCTA 1011 GCACCGTATTACACGGTTCACTCATCT AGATGAGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTACAGGTTGCGAAGGGA TCCCCTTAATCAGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCCTTAATCAGGTGC 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACCGTGAATCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGTGCCTTACTGCCTAATACGGTGC 1015 AGCACGCCAGGGAGGATCAACGC GCGCGTGCTTAATACGGTGC 1016 ATGAGGGCAAGGAATCGAGTTA TAACTCGAACACCTGTAATGCGT 1017 GGGTCTCCCTAAAATCGCG CGCGGATTTTAGGCGGTAGTTCACC 1018 TATCTTGCCCAACGCCTCCATTTA TAACTGGAGGCCCTTACTGCCCTCAT 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTCCCTCAT 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTCACTACTG 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCGTAGGAGACCC 1018 TATCTTGCCCAACGCCTCCATTTA TAAATGGAGGCGTTGCCCAAGACCCTTCACTG 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTTAGGTGTAACC 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTTAGGTGTAACC 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTTAGGTGTAACCC 1019 GGTTACACCTACGGAATCCAGCGC CCCCTGGATTCCCTTAGGTGTAACCCAGCCTCCATTTAACGAGGAGCCCCAGGTTGCGCAAGACCCACTCCGTTAATCAGGGGCGTTGCCCAAGCCCTCCATTTAACGGGGGCGTTGCGCAAGACACCCGGTGTAACCCAGCCTCCATTTAACGGGGGCGTTGCGCAAGACCACTCGGTGTAACCCAGCCTCCATTTAACGGGGGCGTTGCGCAAGACCACTCGGGTGTAACCAGCCAG		994	TCCAGTTGAGTCGCGCCGACGAGG	CCTCGTCGGCGCGACTCAACTGGA
997 ATCAGCGCAAGCTGGTCTGAAACA  998 CCCTGGCCAGAACGAGAGGCCATG CATGGCCTCTGTTCTGGCCAGGG  999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGATCGT  1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA  1001 ACAGCAAGGAGTTGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT  1002 CGTAAATATCTGCGGCGGGTGTGAA TTCACACCGCCGCAGATATTTACG  1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACGAACACGTGTTTCC  1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG  1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTTGTCCGAT  1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTTGTCCGAT  1007 AAATCCGACAAATGGGCACATGGA TCCATCTGCCCTTACTG  1008 CAGTTAGGGGATGCGGATGAGT TCACTCATCCGCATCCCCTAACTG  1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCACCTGCCG  1001 TAGGGCAGCCAGGTTCACTCATCT AGATGAGGAACCCTGGCTGCCCTA  1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGGCTGCCCTA  1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATCGGTG  1013 CGTGACTGCACGGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG  1014 GCTGAACTACCGCCTAAAATCGCG GCGGATTTTAGGCGGTAGTCAGC  1015 AGCACGCCAGGGAGGATCAGGTTA TAACTCGATCCTCCCTGACTG  1016 ATGAGGGCAAGGAATCGAGTTA TAACTCGATCCTCCCTGCGCTGCT  1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGGTGCT  1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTTGCGCAAGATA  1019 GGTTACACCTACGGAATCCAGCG CCGCTGGATTCCGTAGGAGACCC  1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGGCGTTGCGCAAGATA  1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC  1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC  40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACCTCGGTGTAACCC	15	995	CGCAACAGGTCAGCCCTTATTTGC	GCAAATAAGGGCTGACCTGTTGCG
998 CCCTGGCCAGAACGAGAGGCCATG CATGGCCTCTCGTTCTGGCCAGGG 999 ACGATCAAGGACTCGTCAGGGTTG CAACCCTGACGAGTCCTTGATCGT 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA 1001 ACAGCAAGGAGATGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACGACCAGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTTGTCCGAT 1006 GCCCGGAGGACAAGTTCGAGTTA TAACTCGAACTTTGTCCTCCGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCTTTGTCCGATT 1008 CAGTTAGGGGATGCGGATGAGTGA TCCATGTCCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1001 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACCTGTAATGCGT 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGGCGGTAGTCAGC 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTGCTCAT 1015 AGCACGCCAGGGAGGATCCAGGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAGGCCGA TCGGCCTTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGGCGTTGCCCCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAAGGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCCCTGGATTCCGTAGGTGTAACCC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACCTCGTGAATCCCCCAACCTCGTAACCC		996	GCCGTGACTCCTGCAATGTCGGTA	TACCGACATTGCAGGAGTCACGGC
999 ACGATCAAGGACTCGTCAGGGTTG 1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA 1001 ACAGCAAGGAGATGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACGACGACACGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATTGGT ACCATCCACTTGTCCTGTGTC 1006 GCCCGGAGGACAAGTGGATTGGT ACCATCCACTTGTCCTGTGTCGAT 1007 AAATCCGACAAGTGCAAGTTA TAACTCCGAACTTGTCCTCGGGC 1007 AAATCCGACAATGGGCACATGGA TCCATCGTCCCCTAACATG 1008 CAGTTAGGGGATGCGGATGAGT TCACTCATCCGCATCCCCTAACTG 1009 CGGCAGGTGAGAGTTCCGACATTG CAATGTCGCACCTTCCCCTAACTG 10010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGCCCGA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTAATACGGTGC 1012 ACGCATTACAGGTGGCACAGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTCCCACAGGG CCCTTGGAACACCTGCACG 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGTGGAACACCTGCAGTCACG 1015 AGCACGCCAGGGAGGATCAAGGC CCCTGTGGAACACCTGCCCTA 1016 ATGAGGGCAAGGAATGGGTCATCA TAACTCGATCCCCCTCAT 1017 GGGTCTCTCGTAATCAAGGCCGA TCGCCTTTTTTACGAGAGACCCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATCGAGGGGTTCCCCCTCAT 1019 GGTTACACCTACGGGATCCAGCG CCCCTGGATTCCGTAGGTGAACCC 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCGTAGGTGAACCC 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCGTAGGTGAACCCA 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCGTAGGTGAACCCA 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCCTAGGTGAACCCA 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCCTAGGTGTAACCC 1019 GGTTACACCTACGGAATCCAGCG CCCCTGGATTCCCTAGGTGTAACCCAGCGTGAACCCAACCTGTAACCCAACCTGTAACCCAACCTGTAACCCAACCTGAACCCAACCTGAACACCCAACCTGAACCCAACCTGAACCCAACCTGAACCCAACCTGAACCCAACCTGAACCCAACCCTCCAATACAAGGACCAACCTGGAACCCAACCTGGAACCCAACCCTGGAACCCAACCCTGGAACCCAACCCTGGAACCCAACCCTGGAACCCAACCCTGGAACCCAACCCTGAACCCAACCCTGAACCCAACCCTGAACCCAACCCTCCAATTAACAAGGACCAACCCAACCCTGAACCCAACCCTGAACCCAACCCTGAACCCAACCCTGAACCCAACCCCTCCAATTAACAAGGACCAACCCAACCCCTCCAATTAACAAGGACCAACCCAACCCTGGAACCCAACCCCTCCAATTAACAAGGACCAACCCAACCCCAACCCCAACCCCTCCAATTAACAAAGGACCAACCCAACCCAACCCCAACCCCAACCCCAACCCCAACCCC		997	ATCAGCGCAAGCTGGTCTGAAACA	TGTTTCAGACCAGCTTGCGCTGAT
1000 TTCATGGCACCAAGACCACCGTTA TAACGGTGGTCTTGGTGCCATGAA 1001 ACAGCAAGGAGATGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACACACGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCGAATCCTAACATCG 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCCGAT 1008 CAGTTAGGGATGCGGATGAGTGA TCCATGTGCCCATTTGTCCGATTT 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGCAATCTCCACCTGCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACCG GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACAGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGCAGTGCAGT		998	CCCTGGCCAGAACGAGAGGCCATG	CATGGCCTCTCGTTCTGGCCAGGG
1001 ACAGCAAGAGATGGATTGCGACG CGTCGCAATCCATCTCCTTGCTGT 1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACGACACACGTGTTCCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTTGTCCGAT 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCGGATTT 1008 CAGTTAGGGGATGCGGATGAG TCACTCATCCGCATCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCACCTGCCG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTGCT 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTTCGCACAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCAGTGCAATAG CTATTGACCGGACCAACTCGGTGT		999	ACGATCAAGGACTCGTCAGGGTTG	CAACCCTGACGAGTCCTTGATCGT
1002 CGTAAATATCTGCGGCGGTGTGAA TTCACACCGCCGCAGATATTTACG 1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACGACCACGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTTGTCCGAT 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTCCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCACTCACCTTTGTCGGATTT 1008 CAGTTAGGGGATGCGGATGAGTGA TCACTCATCCGCATCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCG 1009 CGGCAGGTTCACTCATCT AGATGAGACCCTGCCCTAACTG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAAGGAA 1014 GCTGAACTACCGCCTAAAATCGCG CCCTGTGGAACACCTGTAATGCGT 1015 AGCACGCCAGGGAGGATCAGGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCG CCGCTGGATTCCGTAGGCAAGATA 1019 GGTTACACCTACGGAATCCAGCG CCCCTTGAATTCCGTAACCC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGTAACCC	20	1000	TTCATGGCACCAAGACCACCGTTA	TAACGGTGGTCTTGGTGCCATGAA
1003 GGAAACACGTGTTCGTCTGTTGGC GCCAACAGACCACACCGTGTTTCC 1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTGTCC		1001	ACAGCAAGGAGATGGATTGCGACG	CGTCGCAATCCATCTCCTTGCTGT
1004 CGATGTTAGGATTCGGATAGGCCA TGGCCTATCCGAATCCTAACATCG 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTTGTCCGAT 1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTCCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCGGATTT 1008 CAGTTAGGGGATGCGGATGAGTGA TCCACTGCCCATCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1009 CGGCAGGTGAGATTCCACCACTT CAATGTCGGAATCTCCACCTGCCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACCTGTAATGCGT 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1002	CGTAAATATCTGCGGCGGTGTGAA	TTCACACCGCCGCAGATATTTACG
25 1005 ATCGGACAAGGACAAGTGGATGGT ACCATCCACTTGTCCTGTCC		1003	GGAAACACGTGTTCGTCTGTTGGC	GCCAACAGACGAACACGTGTTTCC
1006 GCCCGGAGGACAAAGTTCGAGTTA TAACTCGAACTTTGTCCTCCGGGC 1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCGGATTT 1008 CAGTTAGGGGATGCGGATGAGTGA TCACTCATCCGCATCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1004	CGATGTTAGGATTCGGATAGGCCA	TGGCCTATCCGAATCCTAACATCG
1007 AAATCCGACAAATGGGCACATGGA TCCATGTGCCCATTTGTCGGATTT 1008 CAGTTAGGGGATGCGGATGAGTGA TCACTCATCCGCATCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1009 CGGCAGGTGCAGATTCCCACATTG CAATGTCGGAATCTCCACCTGCCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT	25	1005	ATCGGACAAGGACAAGTGGATGGT	ACCATCCACTTGTCCTTGTCCGAT
1008 CAGTTAGGGGATGCGGATGAGTGA TCACTCATCCGCATCCCCTAACTG 1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 30 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1006	GCCCGGAGGACAAAGTTCGAGTTA	TAACTCGAACTTTGTCCTCCGGGC
1009 CGGCAGGTGGAGATTCCGACATTG CAATGTCGGAATCTCCACCTGCCG 1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1007	AAATCCGACAAATGGGCACATGGA	TCCATGTGCCCATTTGTCGGATTT
1010 TAGGGCAGCCAGGTTCACTCATCT AGATGAGTGAACCTGGCTGCCCTA 1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1008	CAGTTAGGGGATGCGGATGAGTGA	TCACTCATCCGCATCCCCTAACTG
1011 GCACCGTATTAGCAGTAGGCACGC GCGTGCCTACTGCTAATACGGTGC 1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1009	CGGCAGGTGGAGATTCCGACATTG	CAATGTCGGAATCTCCACCTGCCG
1012 ACGCATTACAGGTGTGCGAAGGGA TCCCTTCGCACACCTGTAATGCGT 1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTITAGGCGGTAGTTCAGC  35 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT	30	1010	TAGGGCAGCCAGGTTCACTCATCT	AGATGAGTGAACCTGGCTGCCCTA
1013 CGTGACTGCACGTGTTCCACAGGG CCCTGTGGAACACGTGCAGTCACG 1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTTTAGGCGGTAGTTCAGC 35 1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1011	GCACCGTATTAGCAGTAGGCACGC	GCGTGCCTACTGCTAATACGGTGC
1014 GCTGAACTACCGCCTAAAATCGCG CGCGATTITAGGCGGTAGTTCAGC  1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT  1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT  1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC  1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA  1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC  40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1012	ACGCATTACAGGTGTGCGAAGGGA	TCCCTTCGCACACCTGTAATGCGT
1015 AGCACGCCAGGGAGGATCGAGTTA TAACTCGATCCTCCCTGGCGTGCT 1016 ATGAGGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1013	CGTGACTGCACGTGTTCCACAGGG	CCCTGTGGAACACGTGCAGTCACG
1016 ATGAGGCAAGGAATGGGTCATGC GCATGACCCATTCCTTGCCCTCAT 1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1014	GCTGAACTACCGCCTAAAATCGCG	CGCGATTTTAGGCGGTAGTTCAGC
1017 GGGTCTCTCGTAATCAAAGGCCGA TCGGCCTTTGATTACGAGAGACCC 1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT	35	1015	AGCACGCCAGGGAGGATCGAGTTA	TAACTCGATCCTCCCTGGCGTGCT
1018 TATCTTGCGCAACGCCTCCATTTA TAAATGGAGGCGTTGCGCAAGATA 1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1016	ATGAGGGCAAGGAATGGGTCATGC	GCATGACCCATTCCTTGCCCTCAT
1019 GGTTACACCTACGGAATCCAGCGG CCGCTGGATTCCGTAGGTGTAACC 40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1017	GGGTCTCTCGTAATCAAAGGCCGA	TCGGCCTTTGATTACGAGAGACCC
40 1020 ACACCGAGTTGGTCCGGTCAATAG CTATTGACCGGACCAACTCGGTGT		1018	TATCTTGCGCAACGCCTCCATTTA	TAAATGGAGGCGTTGCGCAAGATA
		1019	GGTTACACCTACGGAATCCAGCGG	CCGCTGGATTCCGTAGGTGTAACC
1021 TCCCAGATTAAACGCTAGCCACCG CGGTGGCTAGCGTTTAATCTGGGA	40	1020	ACACCGAGTTGGTCCGGTCAATAG	CTATTGACCGGACCAACTCGGTGT
		1021	TCCCAGATTAAACGCTAGCCACCG	CGGTGGCTAGCGTTTAATCTGGGA

	1022	TTGGTGAAACTGGCCCGTCGGAAG	CTTCCGACGGGCCAGTTTCACCAA
	1023	CCAGGGGAGTTGACAATGAGGCTG	CAGCCTCATTGTCAACTCCCCTGG
	1024	TCTGCGTTATTGGACCGTTTGTCG	CGACAAACGGTCCAATAACGCAGA
	1025	TATGGGATGCTAAACCGGCGTACA	TGTACGCCGGTTTAGCATCCCATA
5	1026	CACAGACGTCTGTCGGGCTTGTGT	ACACAAGCCCGACAGACGTCTGTG
	1027	AGAATGCCGTTCGCCTACTCCCGT	ACGGGAGTAGGCGAACGGCATTCT
	1028	CGACGGATAATGCAGGCCTCATGA	TCATGAGGCCTGCATTATCCGTCG
	1029	ACCCTCTAAAGCAATAGGTCGGCG	CGCCGACCTATTGCTTTAGAGGGT
	1030	CACTCACGGCAGAAGCCTGCTTGT	ACAAGCAGGCTTCTGCCGTGAGTG
10	1031	ATCAGCCCACATATTCTCGGCCGT	ACGGCCGAGAATATGTGGGCTGAT
	1032	CAAATCTGGGGTCGTCCTAAACGC	GCGTTTAGGACGACCCCAGATTTG
	1033	TGTCGCCCATGGCAGGTTAAATAC	GTATTTAACCTGCCATGGGCGACA
	1034	GGGGCCCATCAATTCATTATCGA	TCGATAATGAATTGATGGGCCCCC
	1035	GTCGAGCAGCTTTAGTATCGCGGG	CCCGCGATACTAAAGCTGCTCGAC
15	1036	CCGCTAAGCACCGAAGGCTCACAA	TTGTGAGCCTTCGGTGCTTAGCGG
	1037	TAGAATTAGCGAACGGTGATCCCG	CGGGATCACCGTTCGCTAATTCTA
	1038	CACATGACATTTGGCAAAGGTCCA	TGGACCTTTGCCAAATGTCATGTG
	1039	TCAACGCACTGGCGATGACTAGAT	ATCTAGTCATCGCCAGTGCGTTGA
	1040	CGGGAAATGTCTTTAGCCGTCGAA	TTCGACGGCTAAAGACATTTCCCG
20	1041	ATCAGAGCAAATCTGCAGCGGGGA	TCCCGCTGCAGATTTGCTCTGAT
	1042	GGCCTGTTTCTGTCCAACTGGGCT	AGCCCAGTTGGACAGAAACAGGCC
	1043	ATTTCACCTCGCTGATCGCTTCCG	CGGAAGCGATCAGCGAGGTGAAAT
	1044	AGTGACGCCGAGTCGCGAGGGTTA	TAACCCTCGCGACTCGGCGTCACT
	1045	AGTTGTCTCATCCTGTCCGGGACC	GGTCCCGGACAGGATGAGACAACT
25	1046	CTTCTTTGTGCACACTTGCCAGGG	CCCTGGCAAGTGTGCACAAAGAAG
	1047	CACCTCATCGGAGCATAGCAACCC	GGGTTGCTATGCTCCGATGAGGTG
	1048	ATGCGATCCATGACAAGGGTTGCT	AGCAACCCTTGTCATGGATCGCAT
	1049	CCCGTGGAGATGATGTGCGGCTTA	TAAGCCGCACATCATCTCCACGGG
	1050	CCCAATAGACGCCACAGCCAGTGA	TCACTGGCTGTGGCGTCTATTGGG
30	1051	AACGACCACGACCCTCGCCGAGTA	TACTCGGCGAGGGTCGTGGTCGTT
	1052	GGTGCTTTGTCTGAGGCGAGTGAA	TTCACTCGCCTCAGACAAAGCACC
	1053	CTGTCGGCGCTGCTCTCCGAATTT	AAATTCGGAGAGCAGCGCCGACAG
	1054	CTCGCCGGAGTGTTGTAAGCATTG	CAATGCTTACAACACTCCGGCGAG
	1055	AGCAATCATGAGAGGTGGCCGGTG	CACCGGCCACCTCTCATGATTGCT
<b>3</b> 5	1056	ATTTGCCACCGGCGACAAAAAGAT	ATCTTTTGTCGCCGGTGGCAAAT
	1057	CCGCCCGTGTTGGCATGTCTTTTG	CAAAAGACATGCCAACACGGGCGG
	1058	ATCGGAAGTGCTGACTGACACACG	CGTGTGTCAGTCAGCACTTCCGAT
	1059	CCTCAGACCCTATCTGGGTTGACG	CGTCAACCCAGATAGGGTCTGAGG
	1060	стететестсентс	GAACAGCCGGACCAGACCACAG
40	1061	GTCCCCATTATCGGTGAGTGCAAC	GTTGCACTCACCGATAATGGGGAC
	1062	ACAGGCACGTAAGTGCTCAATCGG	CCGATTGAGCACTTACGTGCCTGT

	1063	AGCAAGATAGCGGGAGTGCCCCTA	TAGGGGCACTCCCGCTATCTTGCT
	1064	GGTTTACGCCATGACATCCCGTCA	TGACGGGATGTCATGGCGTAAACC
	1065	GTGCAGGCCTTTGTGTGTGAATCG	CGATTCACACACAAAGGCCTGCAC
•	1066	CTTCGAGGGTAGGGCTTCGAAACG	CGTTTCGAAGCCCTACCCTCGAAG
5	1067	AGTCGACACTTGGGTTTACCACGG	CCGTGGTAAACCCAAGTGTCGACT
	1068	ACATAAATCTCGCCCGCTGCACTC	GAGTGCAGCGGGCGAGATTTATGT
	1069	GTTTGGTTTTCCACGGAGGTTTGA	TCAAACCTCCGTGGAAAACCAAAC
	1070	GCAGGAACCAGATTAGTGTCCCGG	CCGGGACACTAATCTGGTTCCTGC
	1071	TTTGCTAGAGCGCGGAGCTAAAGC	GCTTTAGCTCCGCGCTCTAGCAAA
10	1072	CTATGTGGCATCGCTGACATGCTC	GAGCATGTCAGCGATGCCACATAG
	1073	CCTAAGTCGGTTTGCAGCTGCTCT	AGAGCAGCTGCAAACCGACTTAGG
	1074	GCGTTCGTCCACAGGAACGGAAGG	CCTTCCGTTCCTGTGGACGAACGC
	1075	TAACCCGCGCCCGAGAAATTGTCT	AGACAATTTCTCGGGCGCGGGTTA
	1076	TATGGTGCTCAGAGCTGTTGCCAA	TTGGCAACAGCTCTGAGCACCATA
<b>1</b> 5	1077	TCATCGACCCACTAACGTCAGGGC	GCCCTGACGTTAGTGGGTCGATGA
	1078	TGCTCAAGCTACGCGTCACTTCCC	GGGAAGTGACGCGTAGCTTGAGCA
	1079	AGCGGGAAGGTCTGAGGAGGGAAA	TTTCCCTCCTCAGACCTTCCCGCT
	1080	CCGATGTAGCACCACCGCAGTGGC	GCCACTGCGGTGGTGCTACATCGG
•	1081	AAGTTCTGGGAATCACACGGCGCG	CGCGCCGTGTGATTCCCAGAACTT
20	1082	CACCAGCCTTACGTGCGGCGTTAA	TTAACGCCGCACGTAAGGCTGGTG
	1083	CGTTTCGCCTCCTCTTCCGAATGC	GCATTCGGAAGAGGAGGCGAAACG
	1084	GAGGAGGCCAATAGAGCAGCGCGC	GCGCGCTGCTCTATTGGCCTCCTC
	1085	AGTAATCTTGCGGCACACAAGCGG	CCGCTTGTGTGCCGCAAGATTACT
	1086	TGAGGACAAACCGCGCGTAGGATA	TATCCTACGCGCGGTTTGTCCTCA
25	1087	TCGTAGAGACGCAGTGCCCATCTC	GAGATGGGCACTGCGTCTCTACGA
	1088	CGAAGCTACACCCCGAGTGCGGTG	CACCGCACTCGGGGTGTAGCTTCG
	1089	ATGATGTGATCTTCCCATGGCTGG	CCAGCCATGGGAAGATCACATCAT
	1090	TGTACACGTATCGCGTTCGCCTAG	CTAGGCGAACGCGATACGTGTACA
	1091	GGTGTGCTTTTACGCATGTACGCA	TGCGTACATGCGTAAAAGCACACC
30	1092	AGGCGGGATACGTGGATGCTAGCC	GGCTAGCATCCACGTATCCCGCCT
	1093	AAATTAGGCACAGCCCTCCCACAG	CTGTGGGAGGGCTGTGCCTAATTT
	1094	ATAAGTTTGGTGAGCCATTCGCGA	TCGCGAATGGCTCACCAAACTTAT
	1095	CCTATTTCGGCGGACCTCGATGCC	GGCATCGAGGTCCGCCGAAATAGG
	1096	TTACCGGAATATGCACTTGGCCGC	GCGGCCAAGTGCATATTCCGGTAA
<b>3</b> 5	1097	CCTCTCGGACGGTCCCTTTGATCG	CGATCAAAGGGACCGTCCGAGAGG
	1098	CAAGCGAATGCTGTATTACGGCCT	AGGCCGTAATACAGCATTCGCTTG
	1099	GCATTTCCCATGCCAGAACGTTGA	TCAACGTTCTGGCATGGGAAATGC
	1100	GTTTTGGCTAACCGTCCTGCCTTG	CAAGGCAGGACGGTTAGCCAAAAC
	1101	AGGTTTTGTCCGGGCGAATGATGT	ACATCATTCGCCCGGACAAAACCT
40	1102	ATGTCCACGAGTGCGTCCGATATC	GATATCGGACGCACTCGTGGACAT
	1103	AGACGCGTACGAGGGTTCTGCGCC	GGCGCAGAACCCTCGTACGCGTCT

	1104	AATACCGTTCCCATCTGTGCGAGG	CCTCGCACAGATGGGAACGGTATT
	1105	ACACAAGGTGCCTCATCGAATGGT	ACCATTCGATGAGGCACCTTGTGT
	1106	GCCGGCAAAATCCTACAAAATCCA	TGGATTTTGTAGGATTTTGCCGGC
	1107	CTTATCCCATGTGCCGGTCTGACT	AGTCAGACCGGCACATGGGATAAG
5	1108	GCGGCCATAATGCATAGCACGGAA	TTCCGTGCTATGCATTATGGCCGC
	1109	TACGGTGCATCGCAGTATGGGTAA	TTACCCATACTGCGATGCACCGTA
	1110	CACCAGATGTCGAGGATCATCGCC	GGCGATGATCCTCGACATCTGGTG
	1111	GCTCCTACGCCCAAAGAGGTATGG	CCATACCTCTTTGGGCGTAGGAGC
	1112	AGAATATGGGCAGCAGCACTC	GAGTGCTGCTGCCCATATTCT
10	1113	CTGCAGTCGCACGCAGTAGACCCG	CGGGTCTACTGCGTGCGACTGCAG
	1114	ATGTCCCTGACCGGAATCTTTCCA	TGGAAAGATTCCGGTCAGGGACAT
	1115	TTCGCCACGAGGCATTAGTCCGAC	GTCGGACTAATGCCTCGTGGCGAA
	1116	ACGTCGTTCCCGAGAATACGGTCT	AGACCGTATTCTCGGGAACGACGT
	1117	ATCCGCTGGCGCTTTGACGAAGAA	TTCTTCGTCAAAGCGCCAGCGGAT
15	1118	TGAACCAAATTCTTACCGCGTGGA	TCCACGCGGTAAGAATTTGGTTCA
	1119	CACGCGTAGGCTGGTGTCATTC	GAATGACACACCAGCCTACGCGTG
	1120	TCGATCCCGCGATCTGGCCTATTG	CAATAGGCCAGATCGCGGGATCGA
	1121	GGAACACTCAACCACCGTGGATCT	AGATCCACGGTGGTTGAGTGTTCC
	1122.	TCACACCAACTGGCCACAGATG	CATCTGTGGCCAGTTGGTGTGA
20	1123	TGTGCTTAGGACACCAGGCAACCC	GGGTTGCCTGGTGTCCTAAGCACA
	1124	GACATTTAACCCGACCGATTGTGC	GCACAATCGGTCGGGTTAAATGTC
	1125	GGCACCGAGCCAGTAGGCCTCTGA	TCAGAGGCCTACTGGCTCGGTGCC
	1126	CTCAAGCGTGCATGTTGGTAACCA	TGGTTACCAACATGCACGCTTGAG
	1127	AGGAAGGCCACCATCCAATATTCG	CGAATATTGGATGGTGGCCTTCCT
25	1128	TACGAACGCCAAGGTTATGCCAAT	ATTGGCATAACCTTGGCGTTCGTA
	1129	CGCACCAGAGTTATGCAGGCTCAA	TTGAGCCTGCATAACTCTGGTGCG
	1130	CCAGCTTGGACGAGGAAGGATGTG	CACATCCTTCCTCGTCCAAGCTGG
	1131	GTCACGCCTTTCAAATGACCCACA	TGTGGGTCATTTGAAAGGCGTGAC
	1132	TGCTAGACCCAGCCCGAGTCTCGG	CCGAGACTCGGGCTGGGTCTAGCA
30	1133	TATTGTGGCACTTGGGTCCAGTGC	GCACTGGACCCAAGTGCCACAATA
	1134	CACGTGTGAGACCGGAAGTGCATC	GATGCACTTCCGGTCTCACACGTG
	1135	GGCAGCCTGATGCTACAGCACCGT	ACGGTGCTGTAGCATCAGGCTGCC
	1136	CGGTCCGTCCATCCTTCAGAGTTA	TAACTCTGAAGGATGGACGGACCG
	1137	CTATTCGCGGACCCTACGCAGTTT	AAACTGCGTAGGGTCCGCGAATAG
35	1138	ACCTGTGCAGTCAGCACGAGTGCG	CGCACTCGTGCTGACTGCACAGGT
	1139	GAGAACCACAGGTGGTCCACCCTA	TAGGGTGGACCACCTGTGGTTCTC
	1140	CCTCGCTAGAGAAATCCACGGGAT	ATCCCGTGGATTTCTCTAGCGAGG
	1141	TAACATCGGTGCAAACCGTGGCGC	GCGCCACGGTTTGCACCGATGTTA
	1142	ACCCAGAAGACATGGCATTCGCCT	AGGCGAATGCCATGTCTTCTGGGT
40	1143	AAAAGCGCTGCTCTAACACCGCCG	CGGCGGTGTTAGAGCAGCGCTTTT

ſ	1145	CCGACACATGGTGGGCTTTTTAAG	CTTAAAAAGCCCACCATGTGTCGG
Ī	1146	ACAGACCAGCTTTTTGCGCAGATT	AATCTGCGCAAAAAGCTGGTCTGT
	1147	CGGCGATCCATTTCACTTCAAAGT	ACTITGAAGTGAAATGGATCGCCG
	1148	GACGTTATCATGACACAGGTCGCG	CGCGACCTGTGTCATGATAACGTC
5	1149	GGCAGAGTTGGATCGGATCCTCAA	TTGAGGATCCGATCCAACTCTGCC
Ī	1150	CCTCAATGCCACCGAATTCGGTAT	ATACCGAATTCGGTGGCATTGAGG
	1151	GGAGTTAGCGTGATTAGTCGCCCA	TGGGCGACTAATCACGCTAACTCC
	1152	GAACTCGACGTGTCACGGAAGGGT	ACCCTTCCGTGACACGTCGAGTTC
	1153	CACAAGCGACATTTCTGGTGCACG	CGTGCACCAGAAATGTCGCTTGTG
10	1154	CCAGAATGCGTGAATTCGCGTCCT	AGGACGCGAATTCACGCATTCTGG
	1155	CAAGGGAGCCCTGCGAATTAGAGT	ACTCTAATTCGCAGGGCTCCCTTG
Ī	1156	ATTCTTGCTTCGGACGACTAGCCG	CGGCTAGTCGTCCGAAGCAAGAAT
	1157	TGCCACTTTGATTTCCAGATTGCC	GGCAATCTGGAAATCAAAGTGGCA
	1158	GATGGTCGGCAGATAAGTGGTGGG	CCCACCACTTATCTGCCGACCATC
15	1159	GTTCACACGGGTTGACCAACATGT	ACATGTTGGTCAACCCGTGTGAAC
	1160	GATTCAATTGCCCCATTCCTGCAT	ATGCAGGAATGGGGCAATTGAATC
	1161	TACCGGAAACTGAGCCTCGTGCTA	TAGCACGAGGCTCAGTTTCCGGTA
	1162	GGATCTTTACTCAGGGGCAGAGCC	GGCTCTGCCCCTGAGTAAAGATCC
	1163	CGCGAGTGCTTTGTTCTGTGGA	TCCACACAGAACAAAGCACTCGCG
20	1164	GTCGTCGCGATGGCGTACATCCTT	AAGGATGTACGCCATCGCGACGAC
	1165	ACGGGAATCTCCCGAAGTGCGAGC	GCTCGCACTTCGGGAGATTCCCGT
	1166	GGTCGAAATGAGCCAGCAGCAGAT	ATCTGCTGCTGGCTCATTTCGACC
	1167	CCATTGGAATACTGCGTGCGGCTT	AAGCCGCACGCAGTATTCCAATGG
	1168	GGAAGACTTCGCGAGGGCACAATG	CATTGTGCCCTCGCGAAGTCTTCC
25	1169	AGGGTGACTTCGAAGGTCCGAACT	AGTTCGGACCTTCGAAGTCACCCT
	. 1170	TCGTCCCTCTGGTGGTCGAATCAC	GTGATTCGACCACCAGAGGGACGA
	1171	TGTGCAAATTATGCTGGGCGTGAG	CTCACGCCCAGCATAATTTGCACA
1	1172	GTCGCCAACTGTCATGTGTGCCCA	TGGGCACACATGACAGTTGGCGAC
	1173	CCTCGAACCCTCAAGACGAAACGA	TCGTTTCGTCTTGAGGGTTCGAGG
30	1174	CTTCATCACGTGACCTTTGTTGCC	GGCAACAAAGGTCACGTGATGAAG
	1175	CCTTCATTCCCAGCAGGATGGCTT	AAGCCATCCTGCTGGGAATGAAGG
	1176	CGGGGACCTCAATGGAGCGTCTTA	TAAGACGCTCCATTGAGGTCCCCG
	1177	CGCCTCTAGCGCTTGTTACGTCGA	TCGACGTAACAAGCGCTAGAGGCG
	1178	CTGCCAGACTCAAAACAGGGACGG	CCGTCCCTGTTTTGAGTCTGGCAG
35	1179	CTCCTTACACCGTGTGAGGGAACC	GGTTCCCTCACACGGTGTAAGGAG
-	1180	TTTCATGCCATATCGCCTCGCGCA	TGCGCGAGGCGATATGGCATGAAA
	1181	GTCTGACTGTCTGCCCTGTATGCG	CGCATACAGGGCAGACAGTCAGAC
	1182	GGTTAATGGAACGGCGTTAACGCG	CGCGTTAACGCCGTTCCATTAACC
	1183	CTTCGCACTGCGGAATCTCAAGCT	AGCTTGAGATTCCGCAGTGCGAAG
40	1184	TGCCAGAGGCGTAGGAGTCCTGGA	TCCAGGACTCCTACGCCTCTGGCA
	11,85	GACGGCGAGCCAGTATTAACTCA	TGAGTTAATACTGGCTCGCCCGTC

1186 GACCTCCAAAGTCATGGGGG CCGCCAAGACTGACTTTGGAGGTC 1187 CGTTAGAGCATGACCGACACAGTC GACGTGTTCGTCATACG 1188 GTGGGCTCAAAAATTGGGTACGCC GGCGTACCCATTTTTTGAGCCCAC 1189 GGGGAGAGATCACGCGTTCCTCT AGAGGAACGCGTGATCTCTGCCCC 1189 TTTCGCCCTACGAAGCGAAGTTTC GAAACTTGGCTTCGTAGGGCGCAA 1191 TACGGGGTGATGTTAAGCTACCCCG GGCGTACCTTCGTAGGGCGAAA 1191 TACGGGGTGATGTAAGCTACCCCG CGCGTACCTTCAGACTCACCCCGTA 1192 CCTGTGAGATGGCGGTGT ACACGGCGATCTCAGACTCACACGG 1193 ACTGAAGCTGGAACAGGCCATTCC CGAATGGCCTGTCAGACTCACACGG 1194 AGCACTGGTTCACAATGGAGACTCCC TGGACTCCATGTGAACCAGTGCT 1195 TAAGGAAGATCACACTCCTTGCG CGCACGGAGTGTAACCATGTGT 1196 CACCACACGCTAAAATTGAAGCCC CGGCTTCAATTTTAGCGTGTGTG 1197 GCTGTCCCAGGAACATCCCTTGCGC CGCCAGGAGTGTGATCTTCTTA 1198 TTCGTTCGTGCACTTGAGTTCATTCGT 1198 TCAGCTTCCTTTGTGCTTTGAAGTCAGCACCACGCAAGAAAAACAAA 1199 TCAGCTTCCTTTGTGCTTGCAGTG 1198 TCAGCATCCTTGTGGATTCTTTA TCAACAATCCACTGCACGAACGAA 1199 TCAGCTTCCTTTGTGCTTGCAGTG 1201 AGCATTGCCGCGGGGCTTTGGTTTA TAAACCAAGCCACAGGAGAGCTGA 1202 CAGAGGGAAATGTTCACACTCCTAA 1203 CGAATTTCACCCCTCTCAAA 1204 TGCCAGAAAATGTACCCTCTAAA 1205 TAGGCCCCCGGGGCTTTGATTTA TAAACCAAGGCCCGGGGACATGCT 1204 TGCCAGAAATGTTGCCGATTCGAA 1205 TAGGCCACCCGGTGTTCACACTTC 1206 GAGAGTCAGACCGAC CGCCTTTTGAGAGGCTGAACTTCTGCCCTTCTG 1207 TAGGCCACCCGGTGTTCACACTTC 1208 CCAGAGAAGCGAACCGAC 1208 CCAGAGAGCCGAGCGACCGAC CGCGTTTGAGAGCACACTCTCCCCTCTGG 1209 CACACAGTCCTGGAACCCACCGAC CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTTGGAACCCGCGACC CTCGTGTCCCTCGGTCTCTCACCGGTTCGAACCCACGCACC CTCGTGTTCCCCCTCTGG 1208 CCAGAGAGCCGAGGGGACACGAC CCCGGTTTCCACAGGACACATTCCCCTCTCG 1208 CCAGAGAGCCGAGGGGACCGAC CCCGGTTTCCACGGATCGCCTC 1208 CCAGAGAGCCGAACGGAC CCCGGTTCCCTCGGTCTCAACCGC 1207 TAGGCCACCGGAGGACACACACACACACACACACACACAC	_			
1188		1186	GACCTCCAAAGTCAGTCTTGGCGG	CCGCCAAGACTGACTTTGGAGGTC
1189		1187	CGTTAGAGCATGACCGAACACGTC	GACGTGTTCGGTCATGCTCTAACG
1190 TITICGCCTACGAAGCGAAGTTTC 1191 TACGGGGTGATGTTAAGCTACGCG 1192 CCTGTGAGTCTGAGATCGCGTGT 1192 CCTGTGAGTCTGAGATCGCCGTGT 1193 ACTGAAGCTGGAACAGGCCATTCG 1193 ACTGAAGCTGGAACAGGCCATTCG 1194 AGCACTGGTTCACATGGGAGTCCA 1195 TAAGGAAGATCACACGCCCATGGGACTCCATGTCAGACCAGTGCT 1196 CACCACAGCGTAAAATTGAAGCCG 1197 GCTGTCGCCAGAGATCATGGACTCCCTGCGC 1198 TACGACAGCTCAAAATTGAAGCCG 1198 TCAGTCCCAGGATCATGTATCCT 1198 CACCACACGCTAAAATTGAAGCCG 1198 TCAGTCCCCAGGATCATTGTATCCT 1198 TCAGCTCTCCTTGGATCTGAATTCTTGA 1199 TCAGCCTCCTTGTGCTTGCAGTG 1198 TCAGCCTCCTTGGTGTTGAATTCTTGA 1199 TCAGCCTCCTTGTGCTTGCAGTG 1198 TCAGCCTCCTTGTGCTTGCAGTG 1198 TCAGCCTCCTTGTGTTTGAATTCCT 1200 ACGACGAGGTGAACTTCGTGGAA 1199 TCAGCCTCCTTGTGCTTGCAGTG 1201 AGCATTGCCGCGGGCCTTGGTTTA 1202 CAGAGGGCAGATGTAATCCT 1203 CGATATTCAGCCTCCTCAA 1204 TGCCAGAAATTGTAACCCG 1205 CAGAGGCCAAGTGAAACCCG 1206 GAGAGTCAGACCCAGGAGAACCAAGGAGAGCCTGA 1207 GAGGCCACCCGGTGTTCAAATCCG 1208 CACACACACCCGGTGTTCAAATTC 1208 CACACACCCGGTGTTCACAATTC 1208 CACACACCCCGGTGTTCACAATTC 1208 CACACACCCCGGTGTTCACAATTC 1208 CACACACCCCGGTGTTCACAATTC 1208 CACACACGCCCCGGCCCAAC 1209 CACACACGCCCAGGGACACCAGG 1207 GAGGCGATCCTGGAACCACGCAAC 1208 CACACACGCCCCAGGTGACCCCAG 1209 CACACACGTCCCATCGTACGCCCT 1208 CACACACGCCCCAGGTAACCCC 1209 CACACACGTCCCATCGTACGCCCT 1208 CACACACGTCCCATCGTACCGCAC 1210 TTACGTTGCGGAAGCCCCCAGGT 1211 ATGTACACGCTGCAATCGTGTCCC 1212 ACTCGTGTGCGAAACCCCCAGGTAAAATCGGCAACT 1211 ATGTACACGCTGCAATCGTGTCCC 1212 ACTCGTGTGGAACCACGCAAC 1211 AAGTTGGTATTCACCAGGT 1211 ATGTACACGCTGCAATCGTGTCCC 1212 ACTCGTGTGGAAACCACGCAGGT 1213 ATGCGAGAGCCAGAATTGATCCC 1214 AAGTTGGTTGTATTCACCCGTTC 1215 TGGGCTAATCGTGATCCA 1216 CACACGGAAAGCCTAAGACCCAGGTTAAAATTTCTGCCCGAATTACTGCTCTCGCAATTCTTCGCCGAATCATTCTTCCCCCAACTTAA 1211 AAGTTGCAGCCGTGCAATTCATTCACCGGTTACAATTCTTCCCCCGAATTACTGCCCCTTCGGAACCACCAGATTTTTA 1211 AAGCTTCAGCAAGCCAGAATTTTTA 1212 ACTCCCAGAAGCCTAAGAATCCAGCACAGATTTTA 1213 ATGCGAGAGCCAGAATTTTAAAAATTTTAAAAATCTTGGGCATTACAGCCCAGATTTTAAAAATCTTCGCCGAATAACCACAGAATTTTAAAAAAAA		1188	GTGGGCTCAAAAATTGGGTACGCC	GGCGTACCCAATTTTTGAGCCCAC
1191 TACGGGGTGATGTTAAGCTACGCG CGCGTAGCTTAACATCACCCCGTA 1192 CCTGTGAGTCTGAGATCGCCGTGT ACACGGCGATCTCAGACTCACAGG 1193 ACTGAAGCTGGAACAGGCCATTCG CGAATGGCCTGTTCCAGCTTCAGT 1194 AGCACTGGTTCACATGGGAGTCCA TGGACTCCATGTGAACCAGTGCT 1195 TAAGGAAGATCACACTCCCTGCGC GCGCAGGGAGTGTGATCTTCCTTA 1196 CACCACACGCTAAATTGAAGCCG CGGCTCAATTTTAGCGTGTGGTG 1197 GCTGTCGCCAGGATCATTGTA TCGT ACAGAATCCATGCACAGG 1198 TTCGTTCGTGCACTGGATTCTTGA TCAGAATCCATGCACAGACGAC 1199 TCAGCTCTCCTTGGCTGCAGTG CACTGCAAGCACAAGGAGAGCTGA 1199 TCAGCTCTCCTTGTGCTTGCAGTG CACTGCAAGCACAAGGAGAGCTGA 1199 TCAGCTCTCCTTGTGCTTGCAGTG CACTGCAAGCACAAGGAGAGCTGA 1190 ACGACGAGGTGAACTTCGTGAGTG CACTGCAAGCACAAGGAGAGCTGA 1190 ACGACGAGGTGAACTTCGTGAGAA TTCCCACGGAAGTTCACCCTCGTCTGT 1201 AGCATTGCCGCGGGCCTTTGGTTTA TAAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA TTGAGGAGTCAACATTCTGCCCTCTG 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAAGAGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTCGGCAACATTTCTGGCA 1206 GAGAGTCAGACCGAGGGACACAGA CTCGGCACACTTTCTGCCCTTC 1207 GAGGCGATCCTGGAACCACGCAAC CTCGGTCCCTCCAGCCTCTC 1208 CCAGAAGGCGGGGCACCAGAC CTCGGTCCCTCCAGCCTCTC 1208 CCAGAAGGCGGCGCACAC GTTGCGTAGCCCCCCCTCTCTC 1208 CCAGAAGGCGGCCCCACAC GTTGCGTATCAGCCCCCCCTCTCTCCACCCTCTC 1209 CACACACGTCCCATCGTACCGCAT ACTGCCGTACGATCGGCTTG 1209 CACACACGTCCCATCGTACGGCAGT ACTGGCTGCACCCCCCCTCTCTCGACCCTCC 1201 TTACGTTGCGGAAGCCGCCAAGT ACTGGCGCGTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTCCGCAACGTAA 1212 ACTCGTGGTGGAACCCGCGCCCCTCTCTA 1214 AAGTTGGTGTATTCACCCGGTG 1215 TGGGCTAATCAGCCGGT ACTGGGCGCTTCCGCAACGTTA 1216 CAACGGCGAAAGCCTAGGGCGCCAAGGT 1217 AGCGTACGAGCAGAATTTTA TAAAATCTTGGGCGCGTTCCGCACCGTTC 1218 ATGCATCAGTCGCCGTTCCTCAAAATCTTCGCCCGTACGATTCACCCCGTTCCGCAACGATTACACCCGGTTCCGCAACGATTCACCCCTTCGGACTTCACCCGACCCTTCACTCAC		1189	GGGGCAGAGATCACGCGTTCCTCT	AGAGGAACGCGTGATCTCTGCCCC
1192 CCTGTGAGATCTGAGATCGCCGTGT ACACGGCGATCTCAGACTCACAGG 1193 ACTGAAGCTGGAACAGGCCATTCG CGAATGGCCTGTTCCAGCTTCAGT 1194 AGCACTGGTTCACATGGGAGTCCA TGGACTCCATGTGAACCAGTCTCAGT 1195 TAAGGAAGATCACACTCCCTGCGC GCGCAGGGAGTGTAATCTCTTA 1196 CACCACACGCTAAAATTGAAGCCG GCGCTGAATTTTACCGTGTGGGT 1197 GCTGTCCCCAGGATCATTGATCGT ACGATACATGATCCTGGCGACAGC 1198 TTCGTTCGTCACTGGATTCTTGA TCAAGAATCCAGTGCACAGACGAA 1199 TCAGCTCTCTTGTGCTTGCAGTG CACTGCAACGAACGAA 1199 TCAGCTCTCTTGTGCTTGCAGTG CACTGCAACGACACAACGAA 1199 TCAGCTCCTTGTGCTTGCAGTG CACTGCAACGACACAACGAA 1199 TCAGCTCCCTTGTGCTTGCAGTG TTCCACAGAACCACAAGGAGAGCTGA 1200 ACGAACGAGTGAACTTCGTGGGAA 1201 AGCATTGCCGCGGGCCTTGGTTTA TAAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTTCAA 1203 CGATATTTCAGCCTCTCAA 1204 TGCCAGAAATGTTGCCGATTCAA 1205 TAGGCCACCCGGTGTTCACAACTC 1206 GAGAGTCAACACCAACTC 1207 TAGCCCACCCGGTGTTCACAACTC 1208 GAGAGTCAACCCAGAACTCTCGCCCTCTG 1209 CACACAGTCCCACCAGACCAGCAAC 1209 CACACAGTCCCATCGTACCCAAC 1210 TTACGTTGCGGAAACCACGCAAC 1211 ATGCTTGCGGAAGCCTCTCAACCGCGTTCCCTCCGGTCTGACTTCC 1209 CACACAGTCCCATCGTACCACCAAC 1211 ATGCTTGCGGAAGCCTGCATCT 1212 ACTCGTGTGCGAACCAGCAGAC 1213 ATGCGACACGCGCTGCTCTA TAGAGGCACCGCTTCCGGCCTCCTCTGG 1214 AAGTTGGTGCGAATCGTCCCAAC 1215 TGGGCTTACTGCAATCTCTTA 1214 AAGTTGGTGCGAAGCGTGCCTCTA TAGAGCCACCATTCCACCACCAAC 1215 TGGGCTTATCACCACGCAGT ACCTGGGCCTTCCCGCACCGATAA 1211 ATGCACCCCTGCGAATCGTTCCC 1212 ACTCGTCGGAACCAGGAGCCCCAAGT ACCTGGGCCCTTCCGGACGATAACCAACCAACTT 1214 AAGTTGGTTCGTATTCACCCGGTC CACCGGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGAACCACGATTCCAGCACCAACTT 1216 CAACGGCGAAAGTTGACAC ACCTGGAACCAACTTTCAGCCGGTAACCACCAACTT 1217 AGCGTACGCCAAAGATTGCTA TAGAACACCAGCATTCAGCCCATCGTTACAT 1218 ATGCATCAGCCCAACGTTCAACTTCTTCGCCGAACCTTTCAGCCGTTACAT 1219 ACCGTCATCAGTCGCCCTTGATTTA TAAATTCTGGCCGGAACCAACTT 1219 ACCGTCATCAGCTCCCTTTGATTTA TAAATTCTGGCCGTACGCT 1218 ATGCATCCAGCGCCCAGGACTTGAGCCCAACCACCACCACCTGGATGAACTTTCGCCCGGACCTGAAGACTTTCGCCCGGACCTGAAGACTTTACACCCAGCCCCCCGTCAAGACTTTCGCCCGGACCTGAAGACCACAACCACCAACCA	5	1190	TTTCGCCCTACGAAGCGAAGTTTC	GAAACTTCGCTTCGTAGGGCGAAA
1193 ACTGAAGCTGGAACAGGCCATTCG 1194 AGCACTGGTTCACATGGGAGTCCA 1195 TAAGGAAGATCACACTCCCTGCGC GCGCAGGAGTGTGATCCTCTTA 1196 CACCACACCGCTAAAATTGAAGCCG GCGCAGGAGTGTGATCTTCCTTA 1197 GCTGTCGCCAGGATCATGTATCGT 1198 TTCGTTCGTGCACAGGATCATTGATCCTG ACGATACATGATCCTGGCGACAGC 1198 TTCGTTCGTGCACTGGATTCTTGA TCAAGAATCCAGTGCACAGACGAA 1199 TCAGCTCTCTTGTGCTTGCAGTG CACTGCAACGAACGAACGAA 1199 TCAGCTCCCTTGTGCTTGCAGTG CACTGCAACGAACGAACGAA 1199 TCAGCTCCCTTGTGCTTGCAGTG CACTGCAACGACCAAGGAGGAGAGCTGA 1201 AGCATTGCCGCGGGCCTTGGTTTA TAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA 1203 CGATATTTCAGCCCTCCAAACGCG CCGTTTGAGAGGCCCGCGGCAATGCT 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAGAGCCCAGGGCCATGCT 1205 TAGGCCACCCGGTGTTCAAATTCG 1206 GAGAGTCAGACCCAGGACACGAG CTCGTTGAACACACGGGTGGCCTA 1207 GAGGCGACCCAGGGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1208 CCAGAGAGCGGGGCTACTGAACACCGC 1208 CCAGAGAGCGGGGCACCAGAG CTCGTGTCCCTCTGGTCTGACTTCC 1209 CACACAGTCCCATCGTACCACCAC 1209 CACACAGTCCCATCGTACGACCAAC 1210 TTACGTTGGGGAAGCCAGCAG TTGCGTGTGCTCCGCTCTGG 1201 TACGTTGGGGAAGCCAGCAG ACTGCGTCCCCTCTGGAACCACGCGTTCCGCACGATAA 1211 ATGTACACCCTGCAACTGTTCCC 1212 ACTCGTGTGCGGAAGCCCCAGGT ACTGCGCCCCACGTAA 1211 ATGTACACCCTGCAATCGTTCCC 1212 ACTCGTCGTCGAACCAGCGCCAAGT ACTGCGCCCACGATAA 1211 ATGCGAGAGCAGAAGTCAACGAGCCCAAGGT 1213 ATGCGAGAGCAGAAGTCAACGGGT ACCTGGGCCTTCCGACACGATAA 1214 AAGTTGGTTCGTATTCACGCGTGC CACCGGTCAATTTCTGCCCAACGATAA 1215 TGGGCTTATGCGCGAAAGTTCAT TAACAACACCACGCCCAACTT 1216 CAACGGCGAAAGCCCAGAATTTCAACGCGTGCAATTTCTGGCCGAACCACTT 1217 AGCGTACGCGCAAAGTTCAACGGGACCAGATTTCAGCCCGTCCCTTTCGCCAACCACTTCGCCAACGATTCAACTTCTGCCCAACGATTCAACTTCTGCCCAACGATTCAACTTCTGCCCAACGAAGACCAACTTTTAACACACCAACCA		1191	TACGGGGTGATGTTAAGCTACGCG	CGCGTAGCTTAACATCACCCCGTA
1194 AGCACTGGTTCACATGGGAGTCCA 1195 TAAGGAAGATCACACTCCCTGCGC 1196 CACCACAGCGTAAAATTGAAGCCG 1197 GCTGTCGCCAGGATCATGATATCGT 1198 TTCGTTCGTGCACAGGATCATGATCGT 1198 TTCGTTCGTGCACAGGATCATGATCGT 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1190 ACGACGAGGTGAACTTCGTGGAA 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1200 ACGACGAGGTGAACTTCGTGGAA 1190 ACGACGAGGTGAACTTCGTGGAA 1190 ACGACGAGGTGAACTTCGTGGAA 1201 AGCATTGCCGCGGGCCTTGGTTTA 1202 CAGAGGGCAGATGTACTCCTCAA 1203 CGATATTTCAGCCTCTCAAACGCG 1204 TGCCAGAAATGTGCACTCCAAACGCG 1205 TAGGCCACCCGGTGTTCACAATTC 1206 GAGAGTCAGACATGCAATTC 1207 GAGGCGATCCTGGAACCACGCAC 1208 CCAGAGAGGCGGGCTTGCACAATTC 1209 CACCAGCAGCGAGGACCACGCAC 1208 CCAGAGAGGCGGGCTACTGACTC 1209 CACCAGTCCCATCGTACACGCACCGCGTCTCCAGCCTC 1209 CACCAGTCCCATCGTACCCACCGCACCCGTTCCCTCGGCTCTCCCCTCTGGCACCCACC		1192	CCTGTGAGTCTGAGATCGCCGTGT	ACACGGCGATCTCAGACTCACAGG
10 1195 TAAGGAAGATCACACTCCCTGCGC GCGCAGGGAGTGTGATCTTCCTTA 1196 CACCACACGCTAAAATTGAAGCCG CGGCTTCAATTTTAGCGTGTGTG 1197 GCTGTCGCCAGGATCATGATCTTGT ACGATACCATGATCCTGGCGACAGC 1198 TTCGTTCGTGCACTGGATTCTTGA TCAAGAATCCAGTGCACGAACGAA 1199 TCAGCTCTCCTTGTGCTTTGCAGTG CACTGCAAGCACAAGGAACGAA 1199 TCAGCTCTCCTTGTGCTTTGCAGTG CACTGCAAGCACAAGGAACGAA 1199 TCAGCTCTCCTTGTTTA TCAAGAATCCAGTGCACGAACGAA 1199 TCAGCTCTCCTTGTGGATA TTCCACAGCAAGCACAAGGAAGCTGA 1200 ACGACGAGGTGAACTTCGTGGGAA TTCCCACGAAGCACAAGGAAGCTGA 1201 AGCATTTCCAGCGGGGCCTTTGTTTA TAAACCAAGGCCCGCGGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGAACCAACGAAC CTCGTGTCCCTCGGTCTTGACCTCT 1207 GAGGCGATCCTGGAACCACGAAC CTCGTGTCCCTCGGTCTTGACTCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCACGACGCTC 1209 CACACAGTCCCATCGTACGGCAG ACTGCTGTCCCTCGGTCTTGACTCTC 1209 CACACAGTCCCATCGTACGGCAGT ACTGCATACGATGGGACTGTGTG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCTCCTCGGTCTTCGCACGACTTCTGGAATGGAA		1193	ACTGAAGCTGGAACAGGCCATTCG	CGAATGGCCTGTTCCAGCTTCAGT
1196 CACCACAGCTAAAATTGAAGCCG CGGCTTCAATTTTAGCGTGTGTG 1197 GCTGTCGCCAGGATCATGATCCTT ACGATACATGATCCTGCGCACAGC 1198 TTCGTTCGTGCACTGGATTCTTGA 1199 TCAGCTCTCCTTGTGCTTGCAGTG 1200 ACGACGAGGTGAACTTCGTGGGAA 1199 TCAGCTCCCTTGTGCTTGCAGTG 1201 AGCATTGCCGGGGCCTTGGTTTA 1202 CAGAGGGCAGATGTAACTCCAGAGCACAAGGACAAGGAACGTGA 1203 CGATATTTCAGCCTCTCAA 1203 CGATATTTCAGCCTCTCAAACGCG 1204 TGCCAGAAATGTTGCCGATTCGAA 1205 TAGGCCACCAGGAATTCCTGAA 1206 GAGAGTCAGAACCAAGGACACAATTCCGCCTCTG 1207 GAGGCCACCCGGTGTTCACAACTC 1208 GAGAGTCAGACCGAGGGACACGAG 1209 CACACAGTCCTGAACCACAGCAAC 1209 CACACAGTCCCATCGAACCAACGCAG 1209 CACACAGTCCCATCGAACCACACAC 1209 CACACAGTCCCATCGAACCACACACAC 1210 TTACGTTGCGGAAGCACACACACACACACACACACACACA		1194	AGCACTGGTTCACATGGGAGTCCA	TGGACTCCCATGTGAACCAGTGCT
1197 GCTGTCGCCAGGATCATGTATCGT ACGATACATGATCCTGGCGACAGC 1198 TTCGTTCGTGCACTGGATTCTTGA TCAAGAATCCAGTGCACGACACGA	10	1195	TAAGGAAGATCACACTCCCTGCGC	GCGCAGGGAGTGTGATCTTCCTTA
1198 TTCGTTCGTGCACTGGATTCTTGA TCAAGAATCCAGTGCACGAACGAA 1199 TCAGCTCTCCTTGTGCTTGCAGTG CACTGCAAGCACAAGGAAGACCTGA 1200 ACGACGAGGTGAACTTCGTGGGAA TTCCCACGAAGTTCACCTCGTCGT 1201 AGCATTGCCGCGGGGCCTTGGTTTA TAAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA TTGAGGAGTCACATCTGCCCTCTG 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCAGAGGCTGAAATATCG 1205 TAGGCCACCCGGTGTTCACAACTTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCGAAGGACCACAATTC GAATTGTGAACACCGGGTGGCCTA 1207 GAGGCGACCCAGGGACCACAG CTCGTGTCCCTCGGTCTGACTCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTTCCAGGATCGCCTC 1209 CACACAGTCCCATCGTACGCACT ACTGCGTAGGACCGGCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGAATGGGACCGAACCTTCCGCAACCGTAA 1211 ATGTACACCGTCCAATCGTCCC GGGACACCATTCCAGCACCGTACCTATCTCAGCACCGAACCATTCCAGCACCGAACCATTCCACCGAACCAGACCAGCACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAGCAACCAACTTTCTGCCCAACCGAACCAGCAACCAGCAACCAGCAACCAGCAACCAACTTCCAGCAGCAGAATTCAGCCCGAACCAACC		1196	CACCACACGCTAAAATTGAAGCCG	CGGCTTCAATTTTAGCGTGTGGTG
1199 TCAGCTCTCTTGTGCTTGCAGTG CACTGCAAGCACAAGGAGAGCTGA 1200 ACGACGAGGTGAACTTCGTGGGAA TTCCCACGAAGTTCACCTCGTCGT 1201 AGCATTGCCGCGGGCCTTGGTTTA TAAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA TTGAGGAGTCACATCTGCCCTCTG 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAACTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCGAGGGACCACAGA CTCGTGTCCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGAAACCACGAC CTCGTGTCCCCTCGGTCTGACTCTC 1208 CCAGAGAGGCGGGCTACTGACCA TGAGTCACGACCGAGGATCCGCCTC 1209 CACACAGTCCCATCGTACGGCAGT ACTGCAGTAGGCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCAGTAGGCACGACGAACGAACGAACGAACGAACGAA		1197	GCTGTCGCCAGGATCATGTATCGT	ACGATACATGATCCTGGCGACAGC
15 1200 ACGACGAGGTGAACTTCGTGGGAA TTCCCACGAAGTTCACCTCGTCGT 1201 AGCATTGCCGCGGGCCTTGGTTTA TAAACCAAGGCCCGCGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA TTGAGGAGTCACATCTGCCCTCTG 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCCAGGGGACACAGG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAC GTTGCGTGCCTCGGTCTGACTCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTACGCCTC 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGACTGTGGACCACGCACC 1210 TTACGTTGCGGAAGCATCGTCTC GGAGACCAGGTTCCCGCAACGTTAC 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTCCGACCGACGAT 1212 ACTCGTCGCGAAGCATCGGCAGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGAGCACGAGT ACCTGGGCGCTTCCGACGACGAGT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCACGCGTGC GCACGCGTGAATACGAACCAACTT 1216 CAACGGCGAAGATTGCTA TAGCAATCTTCGGCGATAACGCCA 1216 CAACGGCGAAAGTCCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1217 AGCGTACGGCGAAAGTTTTA TAAAATTCTTGGCTGTCCGCCTTG 1218 ATGCATCCAGCGTCCCCTTGATTA TAAAATTCTTGGCCGTACGCT 1219 ACCGTCATCAGTCGCAGAGCTTCTG CAGAAGCCTGCGACTGCATT 1219 ACCGTCATCAGTCGCAGGACTTCTG CAGAAGCCTGCAACTGTACACT 1221 TTAACATTCGGCAGAGCTTCTG CAGAAGCCTGCGACTGATGCAT 1222 TGGTGTCGAACTCCCTTGGTTT AACACGCAAGGGAGTTCGACCCA 1223 TACTCCAGCCTGCCCTTGGTTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCGCGCAAAC GTTTGCGCGAGCGACTGGAGTA 1224 CGCAATGCCGTAAGCAACACGTA TACTGTTCTCGCCGTACTCCCAGCCGTCAACCCA 1223 TACTCCAGTCGCCTGCCCCTTGCGAACTATTCCGCGAACTTCCCCAACCAA		1198	TTCGTTCGTGCACTGGATTCTTGA	TCAAGAATCCAGTGCACGAACGAA
1201 AGCATTGCCGCGGGCCTTGGTTTA TAAACCAAGGCCCGCGGCAATGCT 1202 CAGAGGGCAGATGTGACTCCTCAA TTGAGGAGTCACATCTGCCCTCTG 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCAGAGGCACCGAG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGTCCAGGATCGCCTC 1208 CCAGACAGGCGGGCTACTCACTCA TGAGTCAGGTAGCCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGCAAC ACTGCCGTACGACCAGGACCAGGCACC TTAACGACCAGGACCAGCACC ACTGCTACGAACCACGCAAC ACTGCCGAACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAGCACCAC		1199	TCAGCTCTCCTTGTGCTTGCAGTG	CACTGCAAGCACAAGGAGAGCTGA
1202 CAGAGGGCAGATGTGACTCCTCAA 1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGTGAACACCCGGGTGGCCTA 1206 GAGAGTCAGACCGAGGGACACAGAC CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGTCCAGGATCGCCTC 1208 CCAGAGAGGCGGGCTACTGACTCA 1209 CACACAGTCCCATCGTACCGCAAC 1210 TTACGTTGCGGAAGCCTCA 1211 ATGTACACGCTGCAATCGTGCCC 1212 ACTCGTCGCAATCGTGCCC 1212 ACTCGTCGCAACCAGGCAGC 1213 ATGCGAGAGCAGAGCCCCAGGT 1214 AAGTTGGTTCACAATTGAGCCGGT 1215 TGGGCTTATTCACGCGTGC 1216 CAACGGCGAAGATTGAGCCGGT 1217 AGCGTACGGAAGCCCCAGGT 1218 ATGCAGAGAGCCCCAGGT 1219 ACCGTCATCGTATCGCGAAGATTTTA 1216 CAACGGCGAAGACCCAGAATTTTA 1217 AGCGTACGGCAAAGCCCCAGATTTTCGCCGTACGAT 1218 ATGCATCCAGCGGAAGCCCCAGATTTTA 1219 ACCGTCATCGGCAGAGTTTA 1219 ACCGTCATCAGTCGCAGACTTCTGACTCTCGCCGTTCGCCTTCGCCTTCGCAT 1219 ACCGTCATCAGTCGCAGACTTCTTCGCCGTACGATTCTCGCCGTACGAT 1219 ACCGTCATCAGTCGCAGACTTCTTCGCCGACGACGTTCCGCATCGTTCGCCGTTCGACGACTTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCTCGCCGTACGATTCGCCGTACGATTCAGCGCAAGAGACCCCAGACCTTCGGCCTCCGGACTCGATGATTAA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCCAAAC GTTTGCGCGCAAGCATTGCGAACCAAGA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGCGAATTTCGCCGGACTTGACGACCAAGA 1224 CGCAATGCCGTAAGAATACGAACAGTA TACTGTTCGTATTTCGCGGACTTTCGGCACCAAGA 1225 AGTCCCGCGCAAAATACGAACAGTA TACTGTTCTCGTATTTCGCGGGACT	15	1200	ACGACGAGGTGAACTTCGTGGGAA	TTCCCACGAAGTTCACCTCGTCGT
1203 CGATATTTCAGCCTCTCAAACGCG CGCGTTTGAGAGGCTGAAATATCG 1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCGAGGGACACGAG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGGTTCAGAGCCCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTAGCCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGTACAT 1212 ACTCGTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGCACGAGGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCTGGGCGCTTCCGACGACGAGT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGTA TAGCAATCTTCGGCGGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTTACAT 1218 ATGCATCCAGCGTCCCCTTGATTA TAACAATCTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAACAAGGGGACGTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTC CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGCGTTTTCGCCGTATTCGCGAACTTCGGCAACACACAC		1201	AGCATTGCCGCGGGCCTTGGTTTA	TAAACCAAGGCCCGCGGCAATGCT
1204 TGCCAGAAATGTTGCCGATTCGAA TTCGAATCGGCAACATTTCTGGCA 1205 TAGGCCACCCGGTGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCGAGGGACACGAG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGTCCAGGATCGCCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGATGGCCCTC 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGACAT 1212 ACTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCTGGGCGCTTCCGACGACGAGT 1214 AAGTTGGTTCGTATTCACGCGGT ACCGGCTCAATTCTGCTCTCGCAT 1215 TGGGCTTATCACGCGTGC GCACGCGTGAATACGAACCAACTT 1216 CAACGGCGAAGACCCAGAATTTTA TAACAATTCTGGGCGATAAGCCCA 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTTG 1218 ATGCATCCAGCGTCCCTTGATTA TAACAATCTTGGCCGTACGCT 1219 ACCGTCACAGCTCCCCTTGATTA TAACAAGGGGACCCTGGATGCAT 1219 ACCGTCACAGCCGCCCAGGCTTCCGCACTCAGACTTCAGCGT 1219 ACCGTCACAGCCGCCCCTTGATTA TAACAAGGGGACCCCGTCAAGA 1220 TCTTGACGGCGCGAAGCTTCTG CAGAAGCCTCGCACTGATGACGGT 1221 TTAACATTCGGACCCAGGACCTGG 1222 TGGTGTCGAACCCCAGGACCTGG 1223 TACTCCAGTCGCTTGCGTGTT AACCACGAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCCAAAC GTTTGCGCCGACTGACGACTACCCA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCTTTTCGCCGGACTT		1202	CAGAGGGCAGATGTGACTCCTCAA	TTGAGGAGTCACATCTGCCCTCTG
20 1205 TAGGCCACCGGTGTTCACAATTC GAATTGTGAACACCGGGTGGCCTA 1206 GAGAGTCAGACCGAGGGACACGAG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGTCCAGGATCGCCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTAGCCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGCAAT 1212 ACTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGCAACGTAA 1213 ATGCGAGAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1214 AAGTTGGTTCGTATTCACGCGGT ACCTGGGCGCTTCCGACGACGAGT 1215 TGGGCTTATCACGCGTGC GCACGCGTGAATACGAACCAACTT 1216 CAACGGCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1217 AGCGTACGGCGAAAGTCTAGGAC 1218 ATGCATCCAGCGTACATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACCCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGACGCT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGACGCT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGACGCT 1220 TCTTGACGGCGCGAAGTTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACTTGA TCCAATCATGCCCAGCCGTCAAGA 1222 TGGTGTCGAACTCCCTTGCGTGT AACACGCAAGGGAGTTCAACACCA 1223 TACTCCAGTCGCTGCGCCAAAC GTTTGCGCGCAGCGACTGAGATAACACCA 1223 TACTCCAGTCGCTGCCCCTTGCGTGT AACACGCAAGGGAGTTCGACACCA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCTTTCGCGCGACTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCCGCGGACT		1203	CGATATTTCAGCCTCTCAAACGCG	CGCGTTTGAGAGGCTGAAATATCG
1206 GAGAGTCAGACCGAGGGACACGAG CTCGTGTCCCTCGGTCTGACTCTC 1207 GAGGCGATCCTGGAACCACGCAAC GTTGCGTGTTCCAGGATCGCCTC 1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTAGCCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGACGAT 1212 ACTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGCACGACGAT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCTGGGCGCTTCCGCACGACGAT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGTA TAGCAATCTTCGCCGATAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTTGCCTTCGCCTTG 1218 ATGCATCCAGCGTCCCCTTGATTA TAACAATCTGGCGACGACGACTGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGCAT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCCAGCAGATTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCCGCAAGGAGTTCGACACCA 1224 CGCAATGCCTTCGCCGCAAAC GTTTGCCGCAAGCATTACGGCAACCAA 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCCGGACT		1204	TGCCAGAAATGTTGCCGATTCGAA	TTCGAATCGGCAACATTTCTGGCA
1207 GAGGCGATCCTGGAACCACGCAAC 1208 CCAGAGAGGCGGGCTACTGACTCA 1209 CACACAGTCCCATCGTACGGCAGT 1209 CACACAGTCCCATCGTACGGCAGT 1210 TTACGTTGCGGAAGCGTGCCTCTA 1211 ATGTACACGCTGCAATCGTGTCC 1212 ACTCGTCGGAAGCGCCCCAGGT 1213 ATGCGAGAGCGCCCCAGGT 1214 AAGTTGGTTCGCAATCGTGTC 1215 TGGGCTTATCACGCGTGC 1216 CAACGGCGAAGATTGACT 1217 AGCGTACGCAAGATTGAC 1218 ATGCAGGCGAAGATTGAC 1219 ACCGCGAAGATTTAA 1210 TAGCGAGAGCCCCAGGT 1211 AAGTTGGTTCGTATTCACGCGTGC 1212 AACTCGTCGTATTCACGCGTGC 1213 ATGCGAGAGCAGAATTTTA 1214 AAGTTGGTTCGTATTCACGCGTGC 1215 TGGGCTTATCGCCGAAGATTGCTA 1216 CAACGGCGAAGACCCAGAATTTTA 1217 AGCGTACGGCGAAGACCCAGAATTTTA 1218 ATGCATCCAGCGTCCCCTTGATTA 1219 ACCGTCATCAGCGCGC 1218 ATGCATCCAGCGTCCCCTTGATTA 1219 ACCGTCATCAGTCGCAGGCTTCTG 1219 ACCGTCATCAGTCGCAGGCTTCTG 1220 TCTTGACGGCTGGGCATGATTGGA 1221 TTAACATTCGGACCCAGGACCTGG 1222 TGGTGTCGAACCCCAGGACCTGG 1223 TACTCCAGTCGCCTTGCGTGTT 1244 AACACGCAAGGGACCTGGACCCA 1225 AGTCCGCGCGAAATACGAACAGTA 1226 CGCAATGCCGTAAGCATGCCAAGC 1227 TACTCCAGTCGCCTTGCGCACCCAGCCGTCCAAGCACCAAGCACCAAGCACCCAAGCACCCAACCAA	20	1205	TAGGCCACCGGTGTTCACAATTC	GAATTGTGAACACCGGGTGGCCTA
1208 CCAGAGAGGCGGGCTACTGACTCA TGAGTCAGTAGCCCGCCTCTCTGG 1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGTACAT 1212 ACTCGTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCTGGGCGCTTCCGACGACGAGT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGCACTGAGATA 1224 CGCAATGCCGTAAGCATGCCAAGC 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCCGGGACT		1206	GAGAGTCAGACCGAGGGACACGAG	CTCGTGTCCCTCGGTCTGACTCTC
1209 CACACAGTCCCATCGTACGGCAGT ACTGCCGTACGATGGGACTGTGTG  1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA  1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGTACAT  1212 ACTCGTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT  1213 ATGCGAGAGCAGAATTGAGCCGGT ACCTGGGCGCTTCCGACGACGAGT  1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT  1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA  1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG  1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTTG  1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGAACGCTGGATGCAT  1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGT  1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA  1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA  1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA  1223 TACTCCAGTCGCCTGCCCCAAAC GTTTGCGCGCGCACTGAGATA  1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGTTTTCGCCGGACTTACGCGACTTGCGACTTACGCCATTGCCGACTTTACGCCATTCCGCACTTTACGCCATTGCCGACTTTACGCACTTCCGCATTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCATTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGCACTTTACGGCATTTACGCACTTTACGCACTTTACGCACTTTACGGCATTTACGGCATTTACGGCATTTACGGCACTTTACGGCACTTTACGGCACTTTACGGCACTTTACGCACTTTACGGCACTTTACGCACTTACGCACTTTACGCACTTACGCACTTACGCACTTACGCACTTACGCACTTACTATATTTCCACTATTTCCACTATTTTCCACTATTTTCCACTATTTTCCACTATTTTCCACTATTTTCCACTATTTTCACTATTTTCCACTATTTTCCACTATTTTCACTATTTTCCACTATTTTCACTATTTTCCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTCACTATTTTACACTATATTACACTATAT		1207	GAGGCGATCCTGGAACCACGCAAC	GTTGCGTGGTTCCAGGATCGCCTC
25 1210 TTACGTTGCGGAAGCGTGCCTCTA TAGAGGCACGCTTCCGCAACGTAA 1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGACAT 1212 ACTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCGGCTCAATTCTGCTCTCGCAT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGCACTGAGGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATTTCCGCCGGACT 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1208	CCAGAGAGGCGGGCTACTGACTCA	TGAGTCAGTAGCCCGCCTCTCTGG
1211 ATGTACACGCTGCAATCGTGTCCC GGGACACGATTGCAGCGTGTACAT 1212 ACTCGTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCGGCTCAATTCTGCTCTCGCAT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATTTCGCGACTTACGGCATTGCG 40 1225 AGTCCGCGCGCAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1209	CACACAGTCCCATCGTACGGCAGT	ACTGCCGTACGATGGGACTGTGTG
1212 ACTCGTCGGAAGCGCCCAGGT ACCTGGGCGCTTCCGACGACGAGT 1213 ATGCGAGAGCAGAATTGAGCCGGT ACCGGCTCAATTCTGCTCTCGCAT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGATCCAACA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAAGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATTTCGCGCACTTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTTCGCGCGGACT	25	1210	TTACGTTGCGGAAGCGTGCCTCTA	TAGAGGCACGCTTCCGCAACGTAA
1213 ATGCGAGAGCAGAATTGAGCCGGT ACCGGCTCAATTCTGCTCTCGCAT 1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT 1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGAGCGACTGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATTTCGCGCGACTTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGGACT		1211	ATGTACACGCTGCAATCGTGTCCC	GGGACACGATTGCAGCGTGTACAT
1214 AAGTTGGTTCGTATTCACGCGTGC GCACGCGTGAATACGAACCAACTT  1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA  1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG  1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT  1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT  1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT  1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA  1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA  1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA  1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGCAGCGTTACGG  40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1212	ACTCGTCGTCGGAAGCGCCCAGGT	ACCTGGGCGCTTCCGACGACGAGT
1215 TGGGCTTATCGCCGAAGATTGCTA TAGCAATCTTCGGCGATAAGCCCA 1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG 1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCCAAAC GTTTGCGCGCGAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATTTCCGCACTTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1213	ATGCGAGAGCAGAATTGAGCCGGT	ACCGGCTCAATTCTGCTCTCGCAT
1216 CAACGGCGAAGACCCAGAATTTTA TAAAATTCTGGGTCTTCGCCGTTG  1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT  1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT  1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT  1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA  1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA  1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA  1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGCAGCGACTGGAGTA  1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG  40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1214	AAGTTGGTTCGTATTCACGCGTGC	GCACGCGTGAATACGAACCAACTT
1217 AGCGTACGGCGAAAGTCTAGGGAC GTCCCTAGACTTTCGCCGTACGCT 1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCGCAGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT	30	1215	TGGGCTTATCGCCGAAGATTGCTA	<u> </u>
1218 ATGCATCCAGCGTCCCCTTGATTA TAATCAAGGGGACGCTGGATGCAT 1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1216	CAACGGCGAAGACCCAGAATTTTA	TAAAATTCTGGGTCTTCGCCGTTG
1219 ACCGTCATCAGTCGCAGGCTTCTG CAGAAGCCTGCGACTGATGACGGT 1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1217	AGCGTACGGCGAAAGTCTAGGGAC	GTCCCTAGACTTTCGCCGTACGCT
1220 TCTTGACGGCTGGGCATGATTGGA TCCAATCATGCCCAGCCGTCAAGA 1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1218	ATGCATCCAGCGTCCCCTTGATTA	TAATCAAGGGGACGCTGGATGCAT
1221 TTAACATTCGGACCCAGGACCTGG CCAGGTCCTGGGTCCGAATGTTAA 1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1219	ACCGTCATCAGTCGCAGGCTTCTG	CAGAAGCCTGCGACTGATGACGGT
1222 TGGTGTCGAACTCCCTTGCGTGTT AACACGCAAGGGAGTTCGACACCA 1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT	<b>3</b> 5	1220	TCTTGACGGCTGGGCATGATTGGA	TCCAATCATGCCCAGCCGTCAAGA
1223 TACTCCAGTCGCCTGCGCGCAAAC GTTTGCGCGCAGGCGACTGGAGTA 1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1221	TTAACATTCGGACCCAGGACCTGG	CCAGGTCCTGGGTCCGAATGTTAA
1224 CGCAATGCCGTAAGCATGCCAAGC GCTTGGCATGCTTACGGCATTGCG 40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1222	TGGTGTCGAACTCCCTTGCGTGTT	AACACGCAAGGGAGTTCGACACCA
40 1225 AGTCCGCGCGAAATACGAACAGTA TACTGTTCGTATTTCGCGCGGACT		1223	TACTCCAGTCGCCTGCGCGCAAAC	GTTTGCGCGCAGGCGACTGGAGTA
		1224	CGCAATGCCGTAAGCATGCCAAGC	GCTTGGCATGCTTACGGCATTGCG
1226 ATGTTGCACGCGCACTGTATCACA TGTGATACAGTGCGCGTGCAACAT	40	1225	AGTCCGCGCGAAATACGAACAGTA	TACTGTTCGTATTTCGCGCGGACT
		1226	ATGTTGCACGCGCACTGTATCACA	TGTGATACAGTGCGCGTGCAACAT

	1227	ATCGCCTAACTACCCGCGGCGTGC	GCACGCCGCGGGTAGTTAGGCGAT
ſ	1228	TGGCCAGGGAACACAAGCTCGGTA	TACCGAGCTTGTGTTCCCTGGCCA
	1229	AAACATGGGTCGCGTCTGAGATCA	TGATCTCAGACGCGACCCATGTTT
	1230	GCGAGAGCTGCGATTCCCTTTTAG	CTAAAAGGGAATCGCAGCTCTCGC
5	1231	CCGGCCAAACAAGAGACGAGCGGA	тссестсетстеттеессее
	1232	AATGGGCACAGTCTCGCTTGACA	TGTCAAGCGAGACTGTGCCCCATT
	1233	TGTCTCGGGCCTTCAGGACACACT	AGTGTGTCCTGAAGGCCCGAGACA
	1234	TCCACCTTCATTAAGTGGTTCGGC	GCCGAACCACTTAATGAAGGTGGA
	1235	GCTTCGGAATCATCCACCTGTCAT	ATGACAGGTGGATGATTCCGAAGC
10	1236	GAGCCGATGGGCTATCGTCGTCGG	CCGACGACGATAGCCCATCGGCTC
	1237	CACGAATTACGCACGCACAGAGGA	TCCTCTGTGCGTGCGTAATTCGTG
Ī	1238	GCTGTGACGCTCCCCTCAACTAGG	CCTAGTTGAGGGGAGCGTCACAGC
	1239	CGCTCTGAAAACGCGGGCTACGTT	AACGTAGCCCGCGTTTTCAGAGCG
	1240	GAGTGCTGGACACCGTAGCCAGGA	TCCTGGCTACGGTGTCCAGCACTC
15	1241	CCAACCCCAGTGTAGGCGCAAATG	CATTTGCGCCTACACTGGGGTTGG
	1242	GAAGTAGGGGATGTTGGCCGGCGG	CCGCCGGCCAACATCCCCTACTTC
	1243	CAACGTGGGCACCTGTTTTAGCAG	CTGCTAAAACAGGTGCCCACGTTG
	1244	CTAGCTGCGATCCGAACCTCTACG	CGTAGAGGTTCGGATCGCAGCTAG
	1245	CATTGAACCATCAGCCAAGCTGCG	CGCAGCTTGGCTGATGGTTCAATG
20	1246	AGACTGGCAATTTTTCGAGGCCAA	TTGGCCTCGAAAAATTGCCAGTCT
	1247	CTGGCCGTCCATGAGTTGGTCCAG	CTGGACCAACTCATGGACGGCCAG
	1248	CATGCTGAAACACGGGATTGCCAT	ATGGCAATCCCGTGTTTCAGCATG
į	1249	CGATATGTAAGACAGCCGTCGCAA	TTGCGACGGCTGTCTTACATATCG
	1250	AGCGTAACCTACTGGGAAGGCACC	GGTGCCTTCCCAGTAGGTTACGCT
25	1251	GTTCGAACCCCGCGATGTTAAATG	CATTTAACATCGCGGGGTTCGAAC
	1252	GTTGTTAGGAGGCTCGAGGCTGCT	AGCAGCCTCGAGCCTCCTAACAAC
	1253	ACTGGTGCTACGCGGGATATTTGA	TCAAATATCCCGCGTAGCACCAGT
	1254	CTGGGAGCTATCCTCAGCCGAATC	GATTCGGCTGAGGATAGCTCCCAG
	1255	GAACTCGCCGCTGCCGAAGGGTAG	CTACCCTTCGGCAGCGGCGAGTTC
30	1256	TTCGATCGAGGAGCAAGGAGAGTC	GACTCTCCTTGCTCCTCGATCGAA
	1257	GGGGAAAATTGAGGCCTTAGCCAT	ATGGCTAAGGCCTCAATTTTCCCC
	1258	CTAAGGTCAAAGCGCTGTCGCCAG	CTGGCGACAGCGCTTTGACCTTAG
1	1259	CCGTAGCGGTGCTCGACCAGGTTC	GAACCTGGTCGAGCACCGCTACGG
	1260	TGGGGACGAATCCGAATGTAGTGA	TCACTACATTCGGATTCGTCCCCA
35	1261	GTCATGTAATTGCATCCCACGGGT	ACCCGTGGGATGCAATTACATGAC
	1262	CTTTGCGCGGTGGTCAATAAAAG	CTTTTTATTGACCACCGCGCAAAG
	1263	CTCGGGGATGCCCTCTTGGCATTA	TAATGCCAAGAGGGCATCCCCGAG
	1264	CGAAACGTGGTGCAGAAACCTGAA	TTCAGGTTTCTGCACCACGTTTCG
	1265	GGAGTTCACGAGTCGAGCAGTCGC	GCGACTGCTCGACTCGTGAACTCC
40	1266	AGCCGTTTTCAAAGATCTCGACGA	TCGTCGAGATCTTTGAAAACGGCT
	1267	TGGCTGGACATTGTCTGCAATGCA	TGCATTGCAGACAATGTCCAGCCA

	1268	ATCGGCTGCCTCAGTCCCTAATTT	AAATTAGGGACTGAGGCAGCCGAT
	1269	CCAGCATGGAGTTAAGTGAGCGCG	CGCGCTCACTTAACTCCATGCTGG
	1270	TTCATATTTACGAATGCCGGGTGC	GCACCCGGCATTCGTAAATATGAA
	1271	CGAAATCGCACAGGAATTCGCGTC	GACGCGAATTCCTGTGCGATTTCG
5	1272	GGCAATTTCGGGACACTCGTTTCA	TGAAACGAGTGTCCCGAAATTGCC
	1273	TTTGTGATTGGGGGTATAACCCGA	TCGGGTTATACCCCCAATCACAAA
	1274	CCCAGCTAATCCAGCTTGGGCTGT	ACAGCCCAAGCTGGATTAGCTGGG
	1275	AAAATCGTTTGGCTGTAACGTCGC	GCGACGTTACAGCCAAACGATTTT
	1276	AGGAGATTCATCGACTTCCGGGAA	TTCCCGGAAGTCGATGAATCTCCT
10	1277	GCACGGGTCTCAATGCTTAGGGT	ACCCTAAGCATTGAGACCCCGTGC
	1278	GCGCAACAAGTAGCCTACCGAGGC	GCCTCGGTAGGCTACTTGTTGCGC
	1279	TAGCAGGCTGATGCCGTCTACACA	TGTGTAGACGGCATCAGCCTGCTA
	1280	GCAAGCGGCGATCGTACAACTTGT	ACAAGTTGTACGATCGCCGCTTGC
	1281	GCACCTCTGGTAAGCCTGAAAGGG	CCCTTTCAGGCTTACCAGAGGTGC
15	1282	CGAGGCGGTGAGTGCATACCGTG	CACGGTATGCACTCACCGCCCTCG
	1283	GGATTAACCGGAACTGCCCTTCTG	CAGAAGGCAGTTCCGGTTAATCC
	1284	GATATTGGGTCCGGCGCGCATTAC	GTAATGCGCGCCGGACCCAATATC
	1285	GGCCTTTAATCTCCGGTCGCAATG	CATTGCGACCGGAGATTAAAGGCC
	1286	AACCTTAGTGCGGCTAGGTGGGGT	ACCCCACCTAGCCGCACTAAGGTT
20	1287	CACGCTGACGCCAGTGTGGTGAGG	CCTCACCACACTGGCGTCAGCGTG
	1288	GGTTCCCTTGACCCACCGAATTGA	TCAATTCGGTGGGTCAAGGGAACC
	1289	TTCTGACAACATCGACCCTGGCTC	GAGCCAGGGTCGATGTTGTCAGAA
	1290	GCGAGCGAAGATAATCCCCAAACT	AGTTTGGGGATTATCTTCGCTCGC
	1291	GTACTCTGTGCAACGGTCCCGAGT	ACTCGGGACCGTTGCACAGAGTAC
25	1292	ACACGCCAGGAACAGTGTCTGTGA	TCACAGACACTGTTCCTGGCGTGT
	1293	AAGGGAATTTAGCGCGCGTGACTT	AAGTCACGCGCGCTAAATTCCCTT
	1294	TGACGTACGCGTTTTAAGTGGGGA	TCCCCACTTAAAACGCGTACGTCA
	1295	CTTAGAGGGACGAGGCCATGAATG	CATTCATGGCCTCGTCCCTCTAAG
	1296	GGACGACTCCGCAAAAAAGGTCGT	ACGACCTTTTTTGCGGAGTCGTCC
30	1297	TCAATCCCAACATCCAAAGCCTCA	TGAGGCTTTGGATGTTGGGATTGA
	1298	GCACTGGTCTACCAAGCTTGTCCC	GGGACAAGCTTGGTAGACCAGTGC
	1299	ACTTGTCGGAAACGAGACCGAGCA	TGCTCGGTCTCGTTTCCGACAAGT
	1300	TCAGGAAAGGCCTAAAGGCGAAAG	CTTTCGCCTTTAGGCCTTTCCTGA
	1301	GGAATGTAGTCAAGGAGGACGGGG	CCCCGTCCTCCTTGACTACATTCC
35	1302	GCACGTGGTAAATGAATTGGCGAG	CTCGCCAATTCATTTACCACGTGC
	1303	GATCATCAGGGGTTATGCGTCGCG	CGCGACGCATAACCCCTGATGATC
	1304	CTCACTCATTCTGATTGCCCGCGG	CCGCGGCAATCAGAATGAGTGAG
	1305	GGGGTGATCTCTCGAACGTCACCC	GGGTGACGTTCGAGAGATCACCCC
	1306	AAGGTTGCTGCTAGCGTACCTCGA	TCGAGGTACGCTAGCAGCAACCTT
40	1307	TATAGATCGCCCAACAGGCAGGAG	CTCCTGCCTGTTGGGCGATCTATA
	1308	GTTTGGACCTGTTGGGAGTGGGCA	TGCCCACTCCCAACAGGTCCAAAC

	1309	ATTGGGGAAAACCCGGTCTCAAGG	CCTTGAGACCGGGTTTTCCCCAAT
	1310	TCGACGATAAAGTGCTCACGGGAC	GTCCCGTGAGCACTTTATCGTCGA
	1311	CGATAGAATTCAATGCAGGGCGGA	TCCGCCCTGCATTGAATTCTATCG
	1312	CGGTTCGCTACGGCGGCTGGTTTC	GAAACCAGCCGCCGTAGCGAACCG
5	1313	CCAGGTTTCGGTTAGTCGCGCTAG	CTAGCGCGACTAACCGAAACCTGG
	1314	ACGACCTTACACTCGGATCCGACG	CGTCGGATCCGAGTGTAAGGTCGT
	1315	TCGCGTTAAATGGACCAAGGGGCC	GGCCCCTTGGTCCATTTAACGCGA
	1316	CCAGAAAGAAAATGGCGCCCGGAT	ATCCGGGCGCCATTTTCTTTCTGG
	1317	GATACATCGCCGCCTGCTAGGCAC	GTGCCTAGCAGGCGGCGATGTATC
10	1318	GÁGATCACACTCGGAAACCGGATG	CATCCGGTTTCCGAGTGTGATCTC
	1319	ACTTCGCGGAAAAAGGCTGGCATT	AATGCCAGCCTTTTTCCGCGAAGT
	1320	CCGAGCTGCACGAGCACACAAGT	ACTTTGTGTGCTCGTGCAGCTCGG
	1321	TTCCACAAGGCGGCATAGTGAGGC	GCCTCACTATGCCGCCTTGTGGAA
	1322	AGCAAACTGGAATCCGGAAAAACC	GGTTTTCCGGATTCCAGTTTGCT
15	1323	CGCTATGTCGCAGCATGCATTTAC	GTAAATGCATGCTGCGACATAGCG
	1324	AGTCACGCCCAACGTCGGTTCTTT	AAAGAACCGACGTTGGGCGTGACT
	1325	AGTGGGCGCACTTGGCCTTAAATA	TATTTAAGGCCAAGTGCGCCCACT
	1326	ACTTGCAACTTCGGCCGTTTGACT	AGTCAAACGGCCGAAGTTGCAAGT
	1327	CAAACATCAGGTTCATGCCGTACG	CGTACGGCATGAACCTGATGTTTG
20	1328	AGCGTGACCACCCTACAATGGCAA	TTGCCATTGTAGGGTGGTCACGCT
	1329	GCAGGCATCCGGCAGAGATGTCTC	GAGACATCTCTGCCGGATGCCTGC
	1330	GAGCGGCTAAGAGGCCAGACCAAA	TTTGGTCTGGCCTCTTAGCCGCTC
	1331	CACAGAACAGGGTGTTTCCCGCTA	TAGCGGGAAACACCCTGTTCTGTG
	1332	ACTTTGCAGAAGGCCCAACACAAG	CTTGTGTTGGGCCTTCTGCAAAGT
25	1333	CCTTCCTGGTACTTTGTGGGCGAC	GTCGCCCACAAAGTACCAGGAAGG
	1334	CTACATGCTCACCCACCAGAGTG	CACTCTGGTGGGGTGAGCATGTAG
	1335	ATTTTCAGAATAGCCCCGCCTCGA	TCGAGGCGGGGCTATTCTGAAAAT
	1336	CAATTGCTACGTTGACGCCCTCTG	CAGAGGGCGTCAACGTAGCAATTG
	1337	CTGTCGCCTAATCCTCGGTGGCCG	CGGCCACCGAGGATTAGGCGACAG
30	1338	TTTGTGTTGGCTCCGTACATTGGA	TCCAATGTACGGAGCCAACACAAA
	1339	ACGTGACGGGAAGGTGGTTGAATC	GATTCAACCACCTTCCCGTCACGT
	1340	AGTTCTTGCGTTGCACGAAACAGA	TCTGTTTCGTGCAACGCAAGAACT
	1341	GCTCGCCGCGCGTCTTTATGTCTG	CAGACATAAAGACGCGCGGCGAGC
	1342	ATGAACATCGCGAGGCAAGCCTTT	AAAGGCTTGCCTCGCGATGTTCAT
35	1343	CAACCGCGCCCACCAACATTAAGG	CCTTAATGTTGGTGGGCGCGGTTG
	1344	TGATCGAGGACGGCTTGGTAGCCT	AGGCTACCAAGCCGTCCTCGATCA
	1345	GGAGGCATGCCTTCCGAGAGCAAC	GTTGCTCTCGGAAGGCATGCCTCC
	1346	CACCGATCCTCAACGCAATTGCTA	TAGCAATTGCGTTGAGGATCGGTG
	1347	GGCCATGAATTGGGAAATCCATGT	ACATGGATTTCCCAATTCATGGCC
40	1348	CTGTTCCAGGCGTAACCAGCGGGC	GCCCGCTGGTTACGCCTGGAACAG
	1349	TATGTCTGGCTCGCCATCAGAAGA	TCTTCTGATGGCGAGCCAGACATA

	1350	GGAGTGACCAGCACAAGCATCGAG	CTCGATGCTTGTGCTGGTCACTCC
	1351	TCGGACTGGAAGTAACTCGCATGA	TCATGCGAGTTACTTCCAGTCCGA
	1352	GTAGGGTCAAGCACGATTGAAGCC	GGCTTCAATCGTGCTTGACCCTAC
	1353	CACCGCCGTTCGACTAACGTGAC	GTCACGTTAGTCGAACCGCCGGTG
5	1354	GAATGACGCGCAGTGCATTTGAAC	GTTCAAATGCACTGCGCGTCATTC
	1355	GTGCTCGTCTAACCGCGGATAGAG	CTCTATCCGCGGTTAGACGAGCAC
	1356	GCGGACCTGGGTTAATTGACGCGC	GCGCGTCAATTAACCCAGGTCCGC
	1357	TTTTGATGTTGCGCACCGGGCTA	TAGCCCGGTGCGCAACATCAAAAA
	1358	TTGCGTCAGCGCATCTGCTCGATT	AATCGAGCAGATGCGCTGACGCAA
10	1359	ATGAGCACGCCAGTTCGTTCCTTT	AAAGGAACGAACTGGCGTGCTCAT
	1360	TCAACGGTAAAGAATCGCCCCGCA	TGCGGGGCGATTCTTTACCGTTGA
	1361	CGCGATTGACTGAACCACACCTCT	AGAGGTGTGGTTCAGTCAATCGCG
	1362	GCGTGAAAGATGACGGCCGGTATA	TATACCGGCCGTCATCTTTCACGC
	1363	CATGATTCCACCTCGATCGGCTAG	CTAGCCGATCGAGGTGGAATCATG
15	1364	CTACGACAAGCAACCGTGCAAAA	TTTTGCACGGTTGCTTTGTCGTAG
	1365	ATGCCGTGTTCATCTTGATGGTCC	GGACCATCAAGATGAACACGGCAT
	1366	TTCGTGGAGGGACTTTGGAGATCC	GGATCTCCAAAGTCCCTCCACGAA
	1367	GAAGCGCCGTAACGTACACCGTCG	CGACGGTGTACGTTACGGCGCTTC
	1368	AGCGTGCGCTTGGCTATAAGGCTA	TAGCCTTATAGCCAAGCGCACGCT
20	1369	ACAGTCAGGAGTAACGCCGCTCAA	TTGAGCGGCGTTACTCCTGACTGT
	1370	TTTAGCCGCTGCGACTGTAGGAAA	TTTCCTACAGTCGCAGCGGCTAAA
	1371	ACTGTGTCGCAATCAACCCGCAAA	TTTGCGGGTTGATTGCGACACAGT
	1372	TGCAGCCAATGCGGAACTTAGAGG	CCTCTAAGTTCCGCATTGGCTGCA
	1373	CCCGCTATCCCGGTCTTGCAGTTC	GAACTGCAAGACCGGGATAGCGGG
25	1374	GAGGCGCAACATATGCAGTGCTG	CAGCACTGCATATGTTGCGCCCTC
	1375	CGTACGGACATCGATGACGCAACG	CGTTGCGTCATCGATGTCCGTACG
	1376	AGTCTCCCGAGAAACGCATAAGGC	GCCTTATGCGTTTCTCGGGAGACT
	1377	AGGAAGTGGATGAACGCGGCTGCA	TGCAGCCGCGTTCATCCACTTCCT
	1378	GGGTTGCTCACCCTCGTCATCAGG	CCTGATGACGAGGGTGAGCAACCC
30	1379	TAGGAATGCGAGTTCCGGCGGTAA	TTACCGCCGGAACTCGCATTCCTA
	1380	CTCCTCACTTCCAAGCTGCGGATA	TATCCGCAGCTTGGAAGTGAGGAG
	1381	TCAATAGCACCTAGCATGCTCCCG	CGGGAGCATGCTAGGTGCTATTGA
	1382	TGATTCCTGCGCTTTCACAGGTCG	CGACCTGTGAAAGCGCAGGAATCA
	1383	GTATGTGCGGGATGGAAATCACGC	GCGTGATTTCCATCCCGCACATAC
35	1384	TACGGCAACTGTCGATACGAGGGC	GCCCTCGTATCGACAGTTGCCGTA
	1385	GGTTCCCTATCCAGCACTCCTCGC	GCGAGGAGTGCTGGATAGGGAACC
,	1386	ATAAGCGCGCCACAGGTATGTACC	GGTACATACCTGTGGCGCGCTTAT
	1387	GAAAGTCGCCAACAGACTCGAGCA	TGCTCGAGTCTGTTGGCGACTTTC
	1388	CGCTAATGCCTCATAGGCGTGTGC	GCACACGCCTATGAGGCATTAGCG
40	1389	ATCCCCGCCGCACGAAGTACCAAG	CTTGGTACTTCGTGCGGCGGGGAT
	1390	GACGCTGCTGATGGCTTTATCGAT	ATCGATAAAGCCATCAGCAGCGTC

	1391	CTCTCCCGTCGCTTCAGAGATTA	TAATCTCTGAAGCGACGGGGAGAG
	1392	TCATGTGGGCCGTCGTATCAGTTT	AAACTGATACGACGGCCCACATGA
	1393	GGCCTGAAGGTGAATGGTTACGTG	CACGTAACCATTCACCTTCAGGCC
	1394	AGCCTCCAAAGCCGGTAGAGTTCC	GGAACTCTACCGGCTTTGGAGGCT
5	1395	TTGTCGTAGGCGCTCACCTTAGGA	TCCTAAGGTGAGCGCCTACGACAA
	1396	GCCTGAGTCCGGGTCGGGAAAGAA	TTCTTTCCCGACCCGGACTCAGGC
	1397	GGCACTATACCGGTTCTGGACGCG	CGCGTCCAGAACCGGTATAGTGCC
	1398	CCGTGTATACGGAAAGGTACGCCA	TGGCGTACCTTTCCGTATACACGG
	1399	CCCAAGGCAAGTGTGCATCAGTCC	GGACTGATGCACACTTGCCTTGGG
10	1400	GGAGTGCATCATGGCCAAATCTGG	CCAGATTTGGCCATGATGCACTCC
	1401	CCATGTTACGTCTGCGCACCACAG	CTGTGGTGCGCAGACGTAACATGG
	1402	GGCGTTGAGCTTAAAAGCAGCGAC	GTCGCTGCTTTTAAGCTCAACGCC
	1403	TTGGCACTCTGCAAGATACGTGGG	CCCACGTATCTTGCAGAGTGCCAA
	1404	GATCTGCACTGCAAGGTCTTGGGG	CCCCAAGACCTTGCAGTGCAGATC
15	1405	CGATCAACTTGCGGCCATTCCTGC	GCAGGAATGGCCGCAAGTTGATCG
	1406	CGGCTGGGGTCACAGAAACGAGTA	TACTCGTTTCTGTGACCCCAGCCG
	1407	GCGGCTAGTTGTACCTAGCGGCTG	CAGCCGCTAGGTACAACTAGCCGC
	1408	TCGTCACTGTTAGAGAGGCCTCCG	CGGAGGCCTCTCTAACAGTGACGA
	1409	AGTGTCGTGAGCCCTAGCGGCGCT	AGCGCCGCTAGGGCTCACGACACT
20	1410	AGGACGCAGGGATTCAAGTGCAAC	GTTGCACTTGAATCCCTGCGTCCT
	1411	ACCGATGCGCGGTCGGTCTCATAC	GTATGAGACCGACCGCGCATCGGT
•	1412	GGCAGAGGGTTAGGGGGTTTTTT	AAAAAAACCCCCTAACCCTCTGCC
	1413	GGCAAAGGGTGTTTATGGGAGACC	GGTCTCCCATAAACACCCTTTGCC
	1414	ACAAGGCTTCGGCTGGCAGAATAC	GTATTCTGCCAGCCGAAGCCTTGT
25	1415	CATATCCGTTCCTATCGCCAGACG	CGTCTGGCGATAGGAACGGATATG
	1416	AAGCCTTTGTGGCCAAGGCCGCGT	ACGCGGCCTTGGCCACAAAGGCTT
	1417	CCGAACCATGGCTTTATCCAGTGT	ACACTGGATAAAGCCATGGTTCGG
	1418	GTTCAGCAGTAGCTCCCTCCA	TCGAGGAGGAGCTACTGCTGAAC
	1419	GCGCAGTGACACCATGATGCTTTC	GAAAGCATCATGGTGTCACTGCGC
30	1420	ACGATCCATTTTGCCAGCATGCAA	TTGCATGCTGGCAAAATGGATCGT
	1421	TCCCTTCATTTCGGGTTTTTAGCC	GGCTAAAAACCCGAAATGAAGGGA
	1422	TCTTCTTGCCCACATTCCCTTTTG	CAAAAGGGAATGTGGGCAAGAAGA
•	1423	TGCCTTTTGATTGGTGGTCACGGT	ACCGTGACCACCAATCAAAAGGCA
	1424	GACCCTCACGGTCATCAGAGGGAG	CTCCCTCTGATGACCGTGAGGGTC
35	1425	CCGTTCAACACAGTGATACACGCG	CGCGTGTATCACTGTGTTGAACGG
	1426	CACCAGGGGATAGGTGCGGTACGC	GCGTACCGCACCTATCCCCTGGTG
	1427	GGTCGGAACTGATCTGTGCGATCC	GGATCGCACAGATCAGTTCCGACC
	1428	TGCTCCTTCCTAGGGTCATCCGTG	CACGGATGACCCTAGGAAGGAGCA
	1429	GTGGACTTTGACGCCGGCTACCGC	GCGGTAGCCGGCGTCAAAGTCCAC
40	1430	CTGATCTGTCGGCGGTTACTTGCC	GGCAAGTAACCGCCGACAGATCAG
	1431	AGAGGAGCGGAAAAAACCGGACGA	TCGTCCGGTTTTTTCCGCTCCTCT

1432   GCGACGAAGAGCTCC   GAGCTTGCTGGATCTCTTCGTCGC				
1434 GGCGCACTCCAATACCCACTGTTT AAACAGTGGGTATTGGAGTGCGCC 1435 GCGCTTGGAGACTGTCAGGACGTG CACGTCCTGACAGTCTCCAAGCGC 1436 CAAACCGCTGGTTTCTCCACCTGT ACAGGTGACAGCACAGC		1432	GCGACGAAGAGATCCAGCAAGCTC	GAGCTTGCTGGATCTCTTCGTCGC
1435 GCGCTTGGAGACTGTCAGGACGTG CACGTCCTGACAGTCTCCAAGCGC 1438 CAAACCGCTGGTTTCTCCACCTGT ACAGGTGGAGAAACCAGCGGTTTG 1437 GCGATTGCTTGGGATCGGTGACTA TAGTCACCGATCCCAAGCACTAGTTG 1438 CTCAGCGACATTTTTCTGGTGGCG CGCCACCAGAAAATGTCGCTGAG 1439 CAGCGGCGTCGTTTACTCAGGACT AGTCCCAAGCAATAGTCGCTGAG 1439 CAGCGGCGTGTTTACTCAGGACT AGTCCTGAGTAAACGACACCGCGTG 1440 GACAGCCGTGAACGCTCAGCCGTT AACGCCTGAGTAAACGACGCGCCGCTG 1441 GGGCCGTAGAGGCATCAGCGTT AACGCTTAACCAGTCCTTACCGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAACCAGGTGACCGGCG 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAACCAGGTGACCGGCG 1444 CCCCGATCGCGACTCTTCAGACA TGTCTCAAGAGTTGCGATTTGCCA 1445 CAAGGTCCAGGTGACCAACACT AGTGGTTGCGTCACTGGAC 1446 CGAGCCTTCAGTGGACCACCACT AGTGGTTGCGTCACTGGACTT 1447 CAGCAGCGTGCCACTCTCACTTA TAAGTCGAGTCACCCGATCGGG 1449 CTACCACGCTTCTCAGTTGCATTA TAAGTCAGATGCCACTGCGGC 1449 CTACCACGCTTCTCACTTA TAAGTCGAGATGCCACTGCTG 1449 CTACCACGCTCTCGACTTA TAAGTCGAGCTGCCGTG 1449 CTACCACGCTCTCGACTTA TAAGTCGAGCAGCGTGCTG 1449 CTACCACGCTTCTCGACTTA TAAGTCGAGCAGCGTGCTG 1449 CTACCACGCTTCTCGACTTA TAAGTCGAGCAGAGCGTGGTA 1450 ACGTGGTTAAGCAGTGACCGTGC 1451 CGACATATCCAGATTACCAG 1452 CGACCAAGATGGCATGACCGGTGA 1453 AGCTGGGACTAGACCAGATGACCGGTGA 1453 AGCTGGACATGACCAGATG 1453 AGCTGGACATGACCAGATT 1454 CGGCCCAGGCTGTTAACAAATA TATTTTTAACACAGCCTGGGACG 1455 TCGTTCCTTGGAACAATTCAGC 1455 TCGTTCCTTGGAACAATTCAGC 1456 CGGCACTCTTGGACAAATTCAGC 1457 TATCTTGCAGAACAATTCAGCA TGCTAATCACGC 1457 TATCTTGCAGAACAATTCAGCA TGCTAATCACCACGT 1458 TCGAAGGGAAAAGCCCATCAGAC 1459 ACTGCATTACCGCTCTGAGC CTCCGAGTGGCCTTTCCCAGACAATTCACCACGT 1459 ACTGCATTACCACTCCGCCCCCCCCCCCCACAACAGTTTCCACTTTCCAAGCAAG		1433	GGGACTTCCAGCTGAGGGACGAAA	TTTCGTCCCTCAGCTGGAAGTCCC
1436 CAAACCGCTGGTTTCTCCACCTGT ACAGGTGGAGAAACCAGCGGTTTG 1437 GCGATTGCTTGGGATCGGTGACTA TAGTCACCGATCCCAAGCAATCGC 1438 CTCAGCGACATTTTTCTGGTGGCG CGCCACCAGAAAAATGTCGCTGAGTAGAGAGAGAGAGAGA		1434	GGCGCACTCCAATACCCACTGTTT	AAACAGTGGGTATTGGAGTGCGCC
1437 GCGATTGCTTGGGATCGGTGACTA TAGTCACCGATCCCAAGCAATCGC 1438 CTCAGCGACATTTTTCTGGTGGCG CGCCACCAGAAAAATGTCGCTGAG 1439 CAGCGGCGTTTTACTCAGGACT AGTCCTGAGTAAACGACGCCGCTG 1440 GACAGCCGTGACGCCTTTACTCAGGACT AGTCCTGAGTAAACGACGCCGCTG 1441 GGGCCGTGAACGCCTCAGCCGTT AACGGCTGAGCGTTCACGGCTGTC 1441 GGGCCGTAGAGGCATCAGGCTAAAG CTTTTACCCGATGCCTCTACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGACGCGCC 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGAACCACT AGGGAGAAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGGGAGAAATTACACCCGATCGGGG 1446 CGAGCCTTCAGTGTATGCATCCG GCGATGCACCCTGACCTGA		1435	GCGCTTGGAGACTGTCAGGACGTG	CACGTCCTGACAGTCTCCAAGCGC
1438 CTCAGCGACATTITICTGGTGGCG CGCCACAGAAAAATGTCGCTGAG 1439 CAGCGGCGTGTTTACTCAGGACT AGTCCTGAGTAAACGACGCCGCTG 1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGACGCTTCACGGCTGTC 1441 GGGCCGTAGAGGCATCGGGTAAAG 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGACCGCCC 1443 TGCCAAATCGCACACTTTAAAGCATT AATGCTTTAAGCAGGTGACCGCCC 1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAAATTACACCCGATCGGGCA 1445 CAAGGTCCAGGTGAACCACT AGTGGTTGCGATTTGGCA 1446 CGAGCCTTCAGTGATACACCACT AGTGGTTGCGTCACCTGGACCTTG 1447 CAGCAGCGTGCACTTCAACACCACT AGTGGTTGCGTCACCTGGACCTTG 1448 CGGACCAACAGTGGCAACCACT AGTGGTTGCCACCTGGACCTTG 1449 CTACCACGCTCTCGACGTATA 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGCTG 1450 ACGTGGTTAGGCAGTAATCCAG CTGGATTACTGCCATCTTTGGTCCG 1451 CGACATATCCGACATGACCGGATC CATCCGGTCAACCACGT 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTAACAACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAAGT CACCCTGGGCGCGC 1454 CGGTCGTAACCACTTAAAATA TATTTTTAACAACAGCCTGGGCGC 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCGAATTGCGCACCTGCCGCGCAGAACCACTGACCACGT 1456 CGGCATCTCCGGACCATGACCGGATC CACCCAAGGTTCCAGCCT 1457 TATCTTTTCGAACAAATTCAACCTTTAACAACACCTCGGAGACCACGAACCACTAACCACGTTAACCACCTTGCACCACGTTAACCACCTTTAACAACACCTCGGAACCACAACAATTCAACCACCTGGAACCACACAATACCACCTTTAACAACACCTCGGAACCACACAACAATTCAACACCCTGGAACCACACACA	5	1436	CAAACCGCTGGTTTCTCCACCTGT	ACAGGTGGAGAAACCAGCGGTTTG
1439 CAGCGGCGTCGTTTACTCAGGACT 1440 GACAGCCGTGAACGCTCAGCCGTT 1441 GACAGCCGTGAACGCTCAGCCGTT 1442 CGCCGCTCACCTGCTTAAACCATT 1442 CGCCGCTCACCTGCTTAAACCATT 1443 TGCCAAATCGGAACACTCTTGAGACA 1444 CCCCGATCGGGTGAACACTTTAACCAGAGTTGAGAGCGCC 1444 CCCCGATCGGGTGAACACTCTTGAGACA 1444 CCCCGATCGGGTGAATTCTCCCCT 1445 CAAGGTCCAGGTGAACGCAACCACT 1446 CCAAGCCAGTGACGCAACCACT 1447 CAGCAGGTGACGCAACCACT 1448 CGAGCCTTCAGTGGTATGCATGC 1449 CTACCACAGATGCCATTA 1449 CTACCACAGATGCAGCAACCACT 1449 CTACCACAGATGAGCAGCAACACT 1449 CTACCACGCTCTCGCGCGGGCGTGA 1450 ACGTGGTTAGGCATGACGCAGCACACACT 1451 CGACATATCCGCCGGGCTGAT 1452 GCGCCCAGGCTGTAGAGCAGCAACACT 1453 AGCTGGGACCATGAGCAGCAGCAGCTCATGCCAACCACGT 1454 CGGCCCAGGCTGTATAACACCAGGTCCAGCCTAGCAGCT 1455 TCGTTCCTCTGGACATTACACCACGTCAGAGCTCAGCCACACCAGCT 1456 CGGCATATCCGGACATGACCGGATG 1457 TATCTTGTCGACCAGCTTAACACTT 1458 TGCAAGGGACCAACACTT 1459 ACTGCATACCACGTCTAACCACTT 1459 ACTGCATACCACGCTGCTAACCACTT 1459 ACTGCATAGCCAGAACATAACCACGT 1459 ACTGCATAGCCCAGACCACTCGGAG 1460 TGTGATTCAGACAATCACCA 1460 TGTGATTCAGACAATCACCACTTTGCTCCGAGAATGCCG 1461 ACTGCAACACTTCAGCACACTTTGCTCCAGAGAACACTACCACGT 1462 ATGCCACACACACTTCAGCACACTTTGCACCAGGATTCCCAGAGATACCACGT 1463 ACCTCAAGGGACACACACCACTTGAGC CTCCGAGTGCCCAACACATACCACGACACACACACACACA		1437	GCGATTGCTTGGGATCGGTGACTA	TAGTCACCGATCCCAAGCAATCGC
1440 GACAGCCGTGAACGCTCAGCCGTT AACGGCTGAGCGTTCACGGCTGTC 1441 GGGCCGTAGAGGCATCGGGTAAAG 1442 CGCCGCTCACCTGCTTAAAGCATT ATGCTTAACGCAGTGAGCGCGC 1443 TGCCAAATCGCAACTCTTGAGACA 1444 CCCCGATCGGTGTAAAGCATT ATGCTTAAGCAGGTGAGCGCGCG 1445 CAAGGTCCAGGTGAACTCTTGAGACA 1444 CCCCGATCGGTGTAAATTCTCCCT AGGGAGAATTACACCCGATCGGCG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGACCGCGC 1446 CGAGCCTTCAGTGGTATGCATCGC CGCATGCATACCACTGAAGGCCTG 1447 CAGCAGCGTGCCCATCTCGACTTA 1448 CGGACCAAGATGGCAGTAATCCAG 1449 CTACCAAGGTTGCAGTATA 1450 ACGTGGTTAGGCATGACTA 1451 CGACCATATCCGACCTGAATTA 1452 GCGCCCAGGCTGTCTGACTGTA 1453 ACGTGGGTATGCATGACCGGATG 1453 AGCTGGGACTATGCATGACCGGATG 1454 CGGCCCAGGCTGTGTAGAAAATA 1455 TCGTTCCTCTGGACAATTCAGC 1455 TCGTTCCTCTGAACAATTCAGC 1456 CGGCATCTCGGACAACACTT 1457 TATCTTGTCGAACAATTCAGC 1458 TGCAAGGGACACACGCGGAGCGTTACAACCG 1459 ACTGCATGACCAGACCGGAGC 1459 ACTGCATGACCAGACCGGAGC 1459 ACTGCATGACCAGACCGGAGC 1460 TGTGATTCAGCACATTCAGCA 1459 ACTGCATAGCCCAGACCTTGAGC 1460 TGTGATTCAGCACATTCAGCA 1461 CATCCATCAGACAATCACCG 1461 TGTGATTCAGAAAACCCCCGCG 1461 TGTGATTCAGCACAATCACCG 1462 CGCCCTGAACAACGACCACGACCCTTGCACAACGACCTTGCACAACGACCACGACCACCACGACCACCACCACCACCAC		1438	CTCAGCGACATTTTTCTGGTGGCG	CGCCACCAGAAAAATGTCGCTGAG
10 1441 GGGCCGTAGAGGCATCGGGTAAAG CITTACCCGATGCCTCTACGGCCC 1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGTATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCAGGTGACACCACT AGGGAGAATTACACCCGATCGGGG 1446 CGAGCCTTCAGTGGTATTGCATGCG CGCATGCAACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACCTTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACCACTGAAGGCTCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGCTG 1450 ACGTGGTTAGGCATGACGTC GACCGAGCTCATGCACTGACCACGT 1451 CGACATATCCGACATGAACATA TATTTTCTAACACACGCTGCGGCG 1452 GCGCCAGGCTGTTAGAAAATA TATTTTCAACACAGCCTGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGAGCTGCGC 1454 CGGTCCTGCAGCACACTT AAGTTGTACCACGT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAAGTGCCGACCGG 1457 TATCTTGTCGACCACACTT AAGTTGTACAGCGGAGCCGG 1457 TATCTTGTCGACACACTT CAGCTTCCAGATTGTCCGACAAGATCCCGACT 1458 CGGCATCTCCGGACACATCACCGACTTGAGCGACCGACACACTTGAGCACGACACACTTGAGCACCGACACACTTGAGCACACACCCGACACACAC		1439	CAGCGGCGTCGTTTACTCAGGACT	AGTCCTGAGTAAACGACGCCGCTG
1442 CGCCGCTCACCTGCTTAAAGCATT AATGCTTTAAGCAGGTGAGCGGCG 1443 TGCCAAATCGCAACTCTTGAGACA TGTCTCAAGAGTTGCGATTTGGCA 1444 CCCCGATCGGGTGATTTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATTGCATCGC CGCATCCACTGAGCCTTG 1447 CAGCAGCGTGCCATCTCGACTTA TAAGTCGAGATGGGCACCGTGCACCTGGTGACCTTGAGCCATCACCACTGAAGCTCGC 1448 CGGACCAAGATGGCAGTAATCCAC CTGGAATTACTGCACTCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGCTGTA TAAGTCGAGATGGCACACCTTTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGTAC 1450 ACGTGGTTAGGCATGACCGGATG 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACCTTGAGTG CACTCAAGGTCCGGATTCCGGCAC 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGCAGACCGAACGAACGACTTGAGTG CACTCAAGGTCCAGACAAGAA 1458 TGCAAGGGAACAAGGTTAAC GTTAACCTTTTTCCCAGAGGAACGA 1459 ACTGCATAGCCCACACCTGGAG CTCCGGAGTTTCCCCTTGCA 1459 ACTGCATAGCCCCAGATCCCGTTGC 1460 TGTGATTCAGTCAAGCCCAGACCAAGGATA 1460 TGTGATTCAGTCAAGCCCCAGTCCCGTTGC 1461 CATCCATCTACAATTCGGGCCCATTCGGGCCCTTTGCACTTGCAGT 1462 ATGAGCCCTTCACAAAGCCCAAGGAC 1463 ACACTGGAATTGCTAGAAAGCCCCAGCG 1464 CTGAGCTGCTGAAAAGCCCCAGCC 1465 CAGCTACTACAAGCCCAGCCCGCG CGCGGGGTCTAGCAATTCACAC 1466 ATAATGATGGGGCCAATTCCGCC GGCGAATTGTAGATGAATCACA 1466 ATAATGATGGGGCCGATTACACCCGCG GGGGGTCTAGCAATTCCAGTGT 1466 ATAATGATGGGGCCGATTACACCCGCG GGGGGTCTTCCCACTCATTATACATCAGACACAGACAAGACCCCAAGAAGACCCCAAGAAGACCCCAAGACGCCCCTTAGCAGCCCCCAAGTCCCGCCCCTAGTAGCCTGAATCACACTCAGTTCAGACACCCGCCCCCTAGTACCCCGCCCCTAGTACCCTGCACAAAGCCCAAAGACCCCAAGAAGACCCCAACAAGACCCCAAAGAAAAAA		1440	GACAGCCGTGAACGCTCAGCCGTT	AACGGCTGAGCGTTCACGGCTGTC
1443 TGCCAAATCGCAACTCTTGAGACA 1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATTGCG CGCATCCACTGAAGGCTCC 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCT 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACCACTGAAGGCTCC 1449 CTACCACGCTCTGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGGTG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGAGCTGCGT GACGCAGCAGCTCATGCCAACCACGT 1451 CGACCATCTCGACATGACCAGGATG CATCCAGTCCATGCCAACCACGT 1452 GCGCCCAGGCTGTTAAGAAAATA TATTTTCTAACACACGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCCGCTGCTACAACTT AAGTTGTAGCAGCCGGTGACACCACT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGCAGCTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGAGAGCAGCAGCTACAACGT 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCCGAAGAACAGA 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCCACAAGATA 1458 TGCAAGGGGAAAAGCCCCATGAGC GCTCATGGGGCGTTTCCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGGTTTCTCCCCTTGCA 1460 TGTGATTCAGTCGAACAATCCGCTTGC GCAAGCGGATTCTCCCAGATGCAC 1461 CATCCATCTACAATTCGGGCCACTTGC GCAAGCGGATTCTGCAGT 1462 ATGAGCCGTTCAGAACACCCCGCG GCCCTTGCTTCGAACCAGTT 1463 ACACTGGAATCACCCCGCG GCCCTGCCAATTTCACACTTCACATTCAGACTCACACTT 1464 CTGAGCTGCCGGGAGACACCCCC GCGCGTTTCTTCCACACTTCACATTCACATTCAGACCCCCCCC	10	1441	GGGCCGTAGAGGCATCGGGTAAAG	CTTTACCCGATGCCTCTACGGCCC
1444 CCCCGATCGGGTGTAATTCTCCCT AGGGAGAATTACACCCGATCGGGG 1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATCACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGAGCTGCGTC GACGCAGCCTATGCCACCACGT 1451 CGACATATCCAACTGACCAGTG CATCCCGGTCATGCCGATATGTCG 1452 GCGCCCAGGCTGTTAGAAAATA TATTTTAACACACGCCTGCGGCAGATATTCCG 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCAGCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAAGTTCCAGACGT 1456 CGGCATCTCCGGACAAAGGTTAAC GTTCAACACTGTTCCGAACACTT 1457 TATCTTGTCGAACAAATTCAGCA TGCTGAATTGTCCGAACACGAG 1458 TGCAAGGGAGCCCCACTCGGAG CTCCGAGTGCGGCGCCCAGAGGAACGAA 1458 TGCAAGGGAGACCCCCATGAGC CTCCGAGTGCGGCTTACCACGA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATTCTCCCTTGCA 1460 TGTGATTCAGTCGAACACTTCCGCCCGCCTTGCTTCCCCTTGCA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGGCCTTTCTCCCTTGCA 1462 ATGAGCCCGTTCCAGAACACACCCCCGC CGCGCTTTCTTCCAACACATT 1463 ACACTGGAATTCAGACCAAAGA TCTTTGGCTTTCGAACTGAATCACA 1464 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTCTAGATGAATGAACA 1465 CAGCTGCTTCAGAAACCCCCGC CGCGGGGTTTTCTCCACGACAGCTCAG 1466 CTGAGCTGCGTGGAACACTCCCC GGGGGTTTTCCCACGCAGCTCAG 1467 CGACCGAGTGTAGACCCCGCC CGCGGGGTTTTCCCACGCAGCTCAG 1468 TGCAGCTGCTGGGACAACTCCCC GGGGGGTTTTCCCACGCAGCTCAG 1468 TGCAGTACCCCGCCCCCCCCCCCCCCCCCCATCATGTTCCACTTAGTTCAATTAGTTCAACACTTCGGCCCGCCC	•	1442	CGCCGCTCACCTGCTTAAAGCATT	AATGCTTTAAGCAGGTGAGCGGCG
1445 CAAGGTCCAGGTGACGCAACCACT AGTGGTTGCGTCACCTGGACCTTG 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGCTGTA TACAGCCCGCGCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGACCGGATG CACCCGCGCAGAGCGTGGTAG 1451 CGACATATCCGACATGACCGGATG CATCCCGTCATGTCGGATATGCG 1452 GCCCCAGCCTGTTAGACAAATA TATTTTCTAACACACCCTGGCCG 1453 AGCTGGGACTCCGGACCTTGAGTG CACCCAGGTCCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTTGATGC CACCCAGGTCCCGGAGTCCCAGCT 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAAGTTACCACGCT 1456 CGGCATCTCCGGACCATGACC 1457 TATCTTGTCGAACAAATA GATTGTTCCAGAGGAACGA 1458 TGCAAGGGAGCACAAAGGTTAAC GTTAACCTTTGTCCGGAGATCCCG 1459 ACTGCATAGCCCAGATCCGCTGC 1459 ACTGCATAGCCCAGATCCGCTGC 1460 TGTGATTCAGTCGAAGCCATGAGC GCTCATGGGGCTTTCCCCTTGCA 1460 TGTGATTCAGTCGAAGCAAGGCCG CGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGCCCAGT 1462 ATGAGCCCGTTCAGACAAGGCCG CGCCTTGCTTCGACTGAATCACA 1463 ACACTGGAATTGCAGAAAGCCAAAGA TCTTTTGCCTTTCCAACGGCTCAT 1464 CTGAGCTGCAGAAAGCCAAAGA TCTTTTGGCTTTCCAACGGCTCAT 1464 CTGAGCTGCGTTAGAAACCCAAAGA TCTTTTGGCTTTCAACGGCTCAT 1465 CAGCTACTAGAAAAGCCAAAGA TCTTTTGGCTTTCAACGGCTCAT 1464 CTGAGCTGCGTGAGAACACTCCGC GCGGGGTCTAGCAATTCAAGTGTT 1465 CAGCTACTAGGGCGCAAATTCCCG GCGGGGTCTAGCAATTCCAGTGT 1466 ATAATGATGGGACGAGAAGGCCC GGGGGTCTAGCACTCAGT 1467 CGACCGAGTGTTACGACCCCGCG GCGGGGTCTAGCAATTCCAGTGT 1468 TGCAGTACCCGCGCGCTCACTAGT ACTAGTGCGCCCCTAGTAGCTG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCGCCTTCACACTTAC ACTAGTGAACACTCCGCG 1469 ATGCTAGCGCGCCTTCACACTTAC ACTAGTGACACGCGCGCTAGCAT 1470 AGACTCACTGCCGCGCTGATCAAAT ATTTGATCAGCCGGCGCTAGCAT 1470 AGACTCACTGCCGCGCTGATCAAAT ATTTGATCAGCCGGCGCTAGCAT 1470 AGACTCACTGCCGCGCTGATCAAAT ATTTGATCAGCCGGCCACACGAGCTAGCAT 1470 AGACTCACTGCCGCGCTGATCAAAT ATTTGATCAGCCGGCGCTAGCAT 1471 GCCTGGTGCGAAAGATAGGGATTCC GGAATCCCTATCTTCCGCACCAGCAGCATCACACCCGCGCTTCACCTGCCGCCCTAGCATTCTCCCACGGCGCAGTGAGCTC		1443	TGCCAAATCGCAACTCTTGAGACA	TGTCTCAAGAGTTGCGATTTGGCA
15 1446 CGAGCCTTCAGTGGTATGCATGCG CGCATGCATACCACTGAAGGCTCG 1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGCTGTA TACAGCCCGCGCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGACCGGTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTTAGAAAATA TATTTTCTAACACACGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGACCGA 1456 CGGCATCTCCGGACAATGATCACAC TGCTCAAGGTCCCAGCT 1457 TATCTTGTCAGACAAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1458 TGCAAGGGAGCACCACTCGGAG CTCCGAGTGGCGCTCTGCCAAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1460 TGTGATTCAGTCGAAGCACCCCTTGC GCAAGCGGATCTGGGGCTATTCCACATT 1460 TGTGATTCAGATCGAAGCCCCATGAG CCTCATGGGGCTTTCCACTTGCA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCGATTGTAGATGATC 1462 ATGAGCCGTTCAGAAAGCCCAAGA TCTTTGGCTTTCTCACTGAATCACA 1463 ACACTGGAATTGCTAGAACCCCAGC CGCGCGGTTTCTCACATTCAGATG 1464 CTGAGCTGCTGGGGCAAGAACCCCCGC CGCGGGGTTTCTCACATTCAGTGT 1465 CAGCTACTAGAAAGCCAAAGA TCTTTTGGCTTTCTGAACGGCTCAT 1466 ATAATGATGGGACGAAAGCCCCCGC CGCGGGGTTTCTCACAATTCCAGTGT 1466 ATAATGATGGGACGAAAGGCCCC GGGGGGTTACCAACATTCCAGTGT 1467 CGACCGAGTGTTACGACATGCCC GGGGGGTTCTCCACCACATTAT 1468 TGCAGTACCCCGCCCCTCCACTAGT ACTAGTGCACCCCCCTAGTACCTG 1468 TGCAGTACCCCCCCCCCCCCCCCCCCCCCCCCCCACACATCCCCCC		1444	CCCCGATCGGGTGTAATTCTCCCT	AGGGAGAATTACACCCGATCGGGG
1447 CAGCAGCGTGCCCATCTCGACTTA TAAGTCGAGATGGGCACGCTGCTG 1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCGCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGACCGGGTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGCCTAACCACGT 1452 GCGCCCAGGCTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGGCGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACGA 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTCCAGAGGAACGA 1457 TATCTTGTCGGACCACAAGGTTAAC GTTAACCTTTTGTCCAGAGGAACGA 1458 TGCAAGGGAGAAAGCCCCATGGAG CTCCAGAGTTCCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGTTTCTCCCTTGCA 1460 TGTGATTCAGTCGAAGCAAGGCCC CGGCCTTGTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCGACTGAATCACA 1463 ACACTGGAATTGCTAGAACCCCCGC CGCGGGGTTCTCCACGAGTGCT 1464 CTGAGCTGCGTGGGACAACTCCCC 1465 CAGCTACTAGGGCCACTCCGC GCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCCC 1465 CAGCTACTAGGGCCGCATTACCC 1466 ATAATGATGGGACAAGACCCCCGC GCGGAGTTGTCCCACCAGCTCAG 1467 CGACCGAGTTTACGACATGGTGC 1468 TGCAGTACCCGCCGCTCCACTAGT 1469 ATGCTAGCGCGCCTCCACTAGT 1469 ATGCTAGCCCGCCCCTCCACTAGT 1469 ATGCTAGCCCGCCCTCCACTAGT 1469 ATGCTAGCCCGCCCTCCACTAGT 1470 AGACTCACTGCCGCCTGTCAACAAT 1470 AGACTCACTGCCGCCTGTCAACAAT 1471 GCCTGGTCGAAGATAGGGATTCC GGAATCCCTATCTTCCCACCAGCTAGCAT 1471 GCCTGGTCGAAGATAGGGATTCC GGAATCCCTATCTTTCGCACCAGCCTAGCAT 1470 AGACTCACTGCCGCCTGTCAACAAT ATTTGACAGCCGGCCGTAGCAT		1445	CAAGGTCCAGGTGACGCAACCACT	AGTGGTTGCGTCACCTGGACCTTG
1448 CGGACCAAGATGGCAGTAATCCAG CTGGATTACTGCCATCTTGGTCCG 1449 CTACCACGCTCTGCGCGGGGCTGTA TACAGCCCGCCAGAGCGTGGTAG 1450 ACGTGGTTAGGCATGAGCTGCTC GACGCAGCTCATGCCTAACCACGT 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTTGTCGAGCGCCCACTCGGAG CTCCGAGTGGCGCTCGCACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCC 1461 CATCCATCTACAATTCGGGCCAGT 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCGACTGAATCACA 1463 ACACTGGAATTGCTAGAACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAAACCCCGCG GCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGGGTCTAGCAATTCCAGTGT 1465 CAGCTACTAGGGCCGAATGACCCCGCG GCGGAGTTGTCCACGAGCTCAG 1465 CAGCTACTAGGGCCGCAATGACCCCGCG GCGGAGTTGTCCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAGAGCCCC GGGGGTCTAGCAATTCCAGTGT 1467 CGACCGAGTGTACCCCGCG GCGGAGTTGTCCCACCAGCTCAG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGCGGCCCTAGCAT 1469 ATGCTAGCGCCCGCTCCACTAGT ACTAGTGGAGCGGCGGTACTGCA 1469 ATGCTAGCGCCCGCTCCACTAGT ACTAGTGGACCGGCGGTACCAC 1469 ATGCTAGCGCCCCTCCACTAGT ACTAGTGACAGCCGCGCTAGCAT 1470 AGACTCACTGCCGCCGCTCCACTAACATTCCC GGAATTCCCGCCGCAGCTAGCAT 1470 AGACTCACTGCCGCGCTGAACAATTCCC GGAATTCTCCGCCCGCAGCTAGCAT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTTCCGCACCAGGCTCAGCAT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTTCCGCACCAGGCCTAGCAT 1471 GCCTGGTGCGAAGAATAGGGATTCC GGAATCCCTATCTTTCCGCACCAGGCCTAGCAT 1471 GCCTGGTGCGAAGAATAGGGATTCC GGAATCCCTATCTTTCCGCACCAGGCCCTAGCAT 1471 GCCTGGTGCGAAGAATAGGGATTCC GGAATCCCTATCTTTCGCACCAGGCCCTAGCAT 1471 GCCTGGTGCGAAGAATAGGGATTCC GGAATCCCTATCTTTCGCACCAGGCC	15	1446	CGAGCCTTCAGTGGTATGCATGCG	CGCATGCATACCACTGAAGGCTCG
1449 CTACCACGCTCTGCGCGGGCTGTA 1450 ACGTGGTTAGGCATGAGCTGCGTC 1451 CGACATATCCGACATGACCGGATG 1452 GCGCCCAGGCTGTTTAGAAAATA 1453 AGCTGGGACTCGGCTC 1453 AGCTGGGACTCGGACCTTGAGTG 1454 CGGTCGTAACCGGACT 1455 TCGTTCCTCTGGAACAATT 1455 TCGTTCCTCTGGAACAATT 1456 CGGCATCTCCGGACATTCAGCA 1457 TATCTTGTCAGACAATT 1458 TGCAAGGGAGCCCAGGACCTTGAGAC 1459 ACTGCATAGCCCAGTTGACACCG 1459 ACTGCATAGCCCAGTTGAGACACTT 1460 TGTGATTCAGACAAGCCCAGGACTTCCCTTGAACACTG 1461 CATCCATCTACAATTCGGCCAGTTTCTCCCTTGCA 1462 ATGAGCCGTTCAGAACAATTCAGCA 1463 ACACTGGAATTGCGACCAAGGTTACC 1464 CTGAGCTTCAGAAAGCCAAAGA 1465 CAGCTACTAGAAAGCCAAAGA 1466 ATAATGATGGGACGAAAGCCCCAGCGCGGGGTCTCCACCAGGTCAGCAGTTAGCACTG 1466 ATAATGATGGGACGAAAGCCCCCGCG GGGGCCTTCCCACCAGCTCAGCT		1447	CAGCAGCGTGCCCATCTCGACTTA	TAAGTCGAGATGGGCACGCTGCTG
1450 ACGTGGTTAGGCATGAGCTGCGTC  1451 CGACATATCCGACATGACCGGATG  1452 GCGCCCAGGCTGTTAGAAAATA  1453 AGCTGGGACTCCGGACCTTGAGTG  1453 AGCTGGGACTCCGGACCTTGAGTG  1454 CGGTCGTAACCGCTGCTACAACTT  1455 TCGTTCCTCTGGAACAATTCAGCA  1455 TCGTTCCTCTGGAACAATTCAGCA  1456 CGGCATCTCCGGACAAATTCAGCA  1457 TATCTTGTCGAGCACAAAGGTTAAC  1458 TGCAAGGGAGCCCCATGAGC  1459 ACTGCATAGCCCATGAGC  1460 TGTGATTCAGCCAGGCCCTTGCAGCT  1461 CATCCATCACAATTCAGCA  1461 CATCCATCACAATTCAGCA  1462 ATGAGCCGTTCAGAACAATCGGCCAGTTCGACCGAATTGATCAGACCA  1463 ACACTGGAATCGATCAGCCCAGATCCGCTTGCACAGATTAGAACACACAACAATTCAGCACAAAGATTAGCACCCAGATCCGCTTGCACAAGATTAGCACTGAACAATCACAA  1464 CATCCATCACAATTCGGGCCAGT  1465 ACACTGGAATTGCTAGAACCAAAGA  1461 CATCCATCACAATTCGGGCCAAGT  1462 ATGAGCCGTTCAGAAAGCCAAAGA  1463 ACACTGGAATTGCTAGACCCCGCG  1464 CTGAGCTGCTGGGACAACTCCGC  1465 CAGCTACTAGAGCAAAGCCCAAGA  1466 ATAATGATGGGACCAAACCCCAGCGCCCCCCCCCCCCCC		1448	CGGACCAAGATGGCAGTAATCCAG	CTGGATTACTGCCATCTTGGTCCG
20 1451 CGACATATCCGACATGACCGGATG CATCCGGTCATGTCGGATATGTCG 1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCAGAGGAACGA 1457 TATCTTTGTCGAGCGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1458 TGCAAGGGAGAAAGCCCCATGAGC CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCCAGAGGATTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGGCTTAGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTTTCCCACGAGTGT 1464 CTGAGCTGCGAGAAAGCCAAAGA TCTTTGGCTTTCCAACGGCTCAG 1465 CAGCTACTAGGGCGCATTACCC GCGGAGTTGTCCCACGCAGCTCAG 1466 ATAATGATGGGACCACCCCGC GCGGAGTTGTCCCACGCAGCTCAG 1467 CGACCGAGTGTTACGACATGGGC GGGGCCTTCCCTTCGTCCCATCATTAT 1468 TGCAGTACCCGCGCTCCACTAGT ACTAGTGGACGCGCGGTACTGCA 1469 ATGCTAGCGCGCCTCCACTAGT ACTAGTGGACCGCGCGCTAGCAT 1470 AGACTCACTGCGGCTGAACAATC GTACGTTCACCACGCGCCTAGCAT 1470 AGACTCACTGCCGCGCTGAACAAT ATTTGATCAGCCGGCAGTGAGCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCCCACCAGGC		1449	CTACCACGCTCTGCGCGGGCTGTA	TACAGCCCGCGCAGAGCGTGGTAG
1452 GCGCCCAGGCTGTGTTAGAAAATA TATTTTCTAACACAGCCTGGGCGC 1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGGCCTTCTCGACCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTACACATCGCGC 1468 TGCAGTACCCGCCCCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCCCCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1470 AGACTCACTGCCGCCTGAACAAT ATTTGATCAGCCGCCCTAGCAT 1470 AGACTCACTGCCGCCTGAACAAT ATTTGATCAGCCGCCCACAGCCC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1450	ACGTGGTTAGGCATGAGCTGCGTC	GACGCAGCTCATGCCTAACCACGT
1453 AGCTGGGACTCCGGACCTTGAGTG CACTCAAGGTCCGAGTCCCAGCT 1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCTGGGACAACTCCGC GCGGAGTTGTCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGACTTGTCCACCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTACACTCGCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1470 AGACTCACTGCCGGCTGAACAAT ATTTGATCAGCCGGCCGTAGCAT 1470 AGACTCACTGCCGGCTGAACAAT ATTTGATCAGCCGCACCACGCCC 1471 GCCTGGTGCGAAAGATAGGGATTCC GGAAATCCCTACTTTCTCGCACCAGGC	20	1451	CGACATATCCGACATGACCGGATG	CATCCGGTCATGTCGGATATGTCG
1454 CGGTCGTAACCGCTGCTACAACTT AAGTTGTAGCAGCGGTTACGACCG 1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA 25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGAGTTGTCCACGAGTCAT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTCCACTAGT ACTAGTGGAGCGGCGCGTACCTGCA 1470 AGACTCACTGCCGGCTGCAACATCC GGAATCCCTATCTTCGCACCAGGCC 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGCC		1452	GCGCCCAGGCTGTGTTAGAAAATA	TATTTTCTAACACAGCCTGGGCGC
1455 TCGTTCCTCTGGAACAATTCAGCA TGCTGAATTGTTCCAGAGGAACGA  1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGAATGCCG  1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA  1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA  1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT  1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA  30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG  1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT  1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGTCTAGCAATTCCAGTGT  1464 CTGAGCTGCGTGGGACAACTCCGC GCGGGGTCTAGCAATTCCAGTGT  1465 CAGCTACTAGGGCGCGATGTACCC GCGGAGTTGTCCCACGCAGCTCAG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTCCACTAGT ACTAGTGGAGCGGCGCGTACCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGCTC  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGCC		1453	AGCTGGGACTCCGGACCTTGAGTG	CACTCAAGGTCCGGAGTCCCAGCT
25 1456 CGGCATCTCCGGACAAAGGTTAAC GTTAACCTTTGTCCGGAGATGCCG 1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGGACTTCTCCACCAGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAACACTCGCA 1469 ATGCTAGCGCGCCTCTCAACGTAC GTACGTTGACAGCGCGCGTACTGCA 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGCTAGCAT 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1454	CGGTCGTAACCGCTGCTACAACTT	AAGTTGTAGCAGCGGTTACGACCG
1457 TATCTTGTCGAGCGCCACTCGGAG CTCCGAGTGGCGCTCGACAAGATA 1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GCGAGTTGTCCCACGCAGCTCAG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCCTCCACTAGT ACTAGTGGAGCGCGCGTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1455	TCGTTCCTCTGGAACAATTCAGCA	TGCTGAATTGTTCCAGAGGAACGA
1458 TGCAAGGGAGAAAGCCCCATGAGC GCTCATGGGGCTTTCTCCCTTGCA 1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	25	1456	CGGCATCTCCGGACAAAGGTTAAC	GTTAACCTTTGTCCGGAGATGCCG
1459 ACTGCATAGCCCAGATCCGCTTGC GCAAGCGGATCTGGGCTATGCAGT 1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA 30 1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1457	TATCTTGTCGAGCGCCACTCGGAG	CTCCGAGTGGCGCTCGACAAGATA
1460 TGTGATTCAGTCGAAGCAAGGCCG CGGCCTTGCTTCGACTGAATCACA  1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCCGAATTGTAGATGGATG  1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT  1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT  1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG  1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1458	TGCAAGGGAGAAAGCCCCATGAGC	GCTCATGGGGCTTTCTCCCTTGCA
1461 CATCCATCTACAATTCGGGCCAGT ACTGGCCGGAATTGTAGATGGATG 1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1459	ACTGCATAGCCCAGATCCGCTTGC	GCAAGCGGATCTGGGCTATGCAGT
1462 ATGAGCCGTTCAGAAAGCCAAAGA TCTTTGGCTTTCTGAACGGCTCAT 1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1460	TGTGATTCAGTCGAAGCAAGGCCG	CGGCCTTGCTTCGACTGAATCACA
1463 ACACTGGAATTGCTAGACCCCGCG CGCGGGGTCTAGCAATTCCAGTGT 1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	30	1461	CATCCATCTACAATTCGGGCCAGT	ACTGGCCCGAATTGTAGATGGATG
1464 CTGAGCTGCGTGGGACAACTCCGC GCGGAGTTGTCCCACGCAGCTCAG 1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG 1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT 1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1462	ATGAGCCGTTCAGAAAGCCAAAGA	TCTTTGGCTTTCTGAACGGCTCAT
1465 CAGCTACTAGGGCGCGATGTACCC GGGTACATCGCGCCCTAGTAGCTG  1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1463	ACACTGGAATTGCTAGACCCCGCG	CGCGGGGTCTAGCAATTCCAGTGT
1466 ATAATGATGGGACGAGAAGGCCCC GGGGCCTTCTCGTCCCATCATTAT  1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG  1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA  1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT  1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT  40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1464	CTGAGCTGCGTGGGACAACTCCGC	GCGGAGTTGTCCCACGCAGCTCAG
1467 CGACCGAGTGTTACGACATGGTGC GCACCATGTCGTAACACTCGGTCG 1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1465	CAGCTACTAGGGCGCGATGTACCC	GGGTACATCGCGCCCTAGTAGCTG
1468 TGCAGTACCCGCCGCTCCACTAGT ACTAGTGGAGCGGCGGGTACTGCA 1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC	35	1466	ATAATGATGGGACGAGAAGGCCCC	GGGGCCTTCTCGTCCCATCATTAT
1469 ATGCTAGCGCGCCTGTCAACGTAC GTACGTTGACAGGCGCGCTAGCAT 1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1467	CGACCGAGTGTTACGACATGGTGC	GCACCATGTCGTAACACTCGGTCG
1470 AGACTCACTGCCGGCTGATCAAAT ATTTGATCAGCCGGCAGTGAGTCT 40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1468	TGCAGTACCCGCCGCTCCACTAGT	ACTAGTGGAGCGGCGGGTACTGCA
40 1471 GCCTGGTGCGAAGATAGGGATTCC GGAATCCCTATCTTCGCACCAGGC		1469	ATGCTAGCGCGCCTGTCAACGTAC	GTACGTTGACAGGCGCGCTAGCAT
		1470	AGACTCACTGCCGGCTGATCAAAT	ATTTGATCAGCCGGCAGTGAGTCT
1472 GGAAAGTTGGCGGATCCGAGCACT AGTGCTCGGATCCGCCAACTTTCC	40	1471	GCCTGGTGCGAAGATAGGGATTCC	GGAATCCCTATCTTCGCACCAGGC
		1472	GGAAAGTTGGCGGATCCGAGCACT	AGTGCTCGGATCCGCCAACTTTCC

	·		
	1473	GGCAGTGAGCAATGTGTGACGAGG	CCTCGTCACACATTGCTCACTGCC
	1474	TGAGGTCCTCCCGGCGGACTACGA	TCGTAGTCCGCCGGGAGGACCTCA
	1475	CTCGCCTTAGATCGTGGTTCCGCA	TGCGGAACCACGATCTAAGGCGAG
	1476	GTCGAGGAATATCATCGCAGCCAG	CTGGCTGCGATGATATTCCTCGAC
5	1477	GCGAATGCAACGAGACAAGAAGGA	TCCTTCTTGTCTCGTTGCATTCGC
	1478	TTCGCCACCAAGTCGGCATTTGTT	AACAAATGCCGACTTGGTGGCGAA
	1479	CGGTGGCTGACACTTGCCGGATTC	GAATCCGGCAAGTGTCAGCCACCG
	1480	CAAGGAGCAATCAGATGGTCGGAG	CTCCGACCATCTGATTGCTCCTTG
	1481	GTGACCCGGTCCGTTCTAGCTGTG	CACAGCTAGAACGGACCGGGTCAC
10	1482	CTCTCGCCCACATAACTGCACAAA	TTTGTGCAGTTATGTGGGCGAGAG
	1483	AAACCTGCCTAAGCAAGCACTGGA	TCCAGTGCTTGCTTAGGCAGGTTT
	1484	TTCCATATTGTACCCCGCGCATGC	GCATGCGCGGGGTACAATATGGAA
	1485	TGCTTGCGATATCACGATACTGCG	CGCAGTATCGTGATATCGCAAGCA
	1486	TTAGTGTTCGAGCCTTGAGCCGGC	GCCGGCTCAAGGCTCGAACACTAA
15	1487	CTTGTTGCGCGAGTCCGTCTGGGA	TCCCAGACGGACTCGCGCAACAAG
	1488	GTCAGCTGCTGCTGGTGCTCTTC	GAAGAGCACCAGCAGGCAGCTGAC
	1489	CATCCCTCGAGGTGTAGGCAACAC	GTGTTGCCTACACCTCGAGGGATG
	1490	CAGATGCACTCCGACGGGATTCAG	CTGAATCCCGTCGGAGTGCATCTG
	1491	CTGAGCCTCGCGAAGCTGTGGCAT	ATGCCACAGCTTCGCGAGGCTCAG
20	1492	GCTATGCCACGCCGCAGATAGAGC	GCTCTATCTGCGGCGTGGCATAGC
	1493	AACACCAACCATACCGTCCGTTCA	TGAACGGACGGTATGGTTGGTGTT
	1494	GCCCAGAGCTAAAGCATGTCTGGG	CCCAGACATGCTTTAGCTCTGGGC
	1495	AATGCTGCAATGCTAGCGTCGCTA	TAGCGACGCTAGCATTGCAGCATT
	1496	TCCGGACGCAGTATCCAATCCGGA	TCCGGATTGGATACTGCGTCCGGA
25	1497	TAAGACCATGTGGCACCAAGGTGC	GCACCTTGGTGCCACATGGTCTTA
	1498	ACAGCCACACACGCGCCCACTA	TAGTGGGGGCGTGTGTGTGGCTGT
	1499	TAGAACCGAGCACGGCGCCTTGTA	TACAAGGCGCCGTGCTCGGTTCTA
	1500	TTCGAGTAAGCTGGCAGGACCACT	AGTGGTCCTGCCAGCTTACTCGAA
	1501	CTTTCGCAGGTTCGCAGACAATCC	GGATTGTCTGCGAACCTGCGAAAG
30	1502	TACGTCCTGTGCTGTTGACACCGG	CCGGTGTCAACAGCACAGGACGTA
	1503	GTTCGGGTCAATGTTTCGGGGAGA	TCTCCCGAAACATTGACCCGAAC
	1504	CCCTGTTGTGAAGGGGTTTTGTGA	TCACAAAACCCCTTCACAACAGGG
	1505	GGCAGATTGGTGAACCCCAGATAA	TTATCTGGGGTTCACCAATCTGCC
	1506	CCCTCGGTGTGTTCAAGCCAAATC	GATTTGGCTTGAACACCCGAGGG
35	1507	CCCGCGAACATTTGAACAGCTTAA	TTAAGCTGTTCAAATGTTCGCGGG
	1508	CCGTGTCAGTTGCTCCCTGGCACG	CGTGCCAGGGAGCAACTGACACGG
	1509	TCCGTCTCAGCCGCCTCCCTATCC	GGATAGGGAGGCGGCTGAGACGGA
	1510	ATAGCTGGGTCACCACAGGCGGTC	GACCGCCTGTGGTGACCCAGCTAT
	1511	ATAGGCAAGCGGTGTAGCACAGCG	CGCTGTGCTACACCGCTTGCCTAT
40	1512	TTAGAAGCCGGTCTGGATTTGCGT	ACGCAAATCCAGACCGGCTTCTAA
	1513	TGCCGACCTTTACCAGGATCCTCG	CGAGGATCCTGGTAAAGGTCGGCA

	1514	GCCCACACTATAACCAAGCTGGCA	TGCCAGCTTGGTTATAGTGTGGGC
	1515	TTGCGCCACTAGTACGGATCTCAA	TTGAGATCCGTACTAGTGGCGCAA
	1516	CTTGCAGTTTATGCTGACCCGTCC	GGACGGGTCAGCATAAACTGCAAG
	1517	TGCCTCCAAATTACTTACCGCCGT	ACGGCGGTAAGTAATTTGGAGGCA
5	1518	CCCGTATGCGGAAGCTATGGGCTA	TAGCCCATAGCTTCCGCATACGGG
	1519	TCGTTCAACCCCACACTTCAGTTG	CAACTGAAGTGTGGGGTTGAACGA
	1520	CAATGTGGGGGACATTTCAAGGTT	AACCTTGAAATGTCCCCCACATTG
	1521	TAGCGTCGCACAAATGGCTGACCG	CGGTCAGCCATTTGTGCGACGCTA
	1522	GGTGGCTTCGTGACAATATCGGCC	GGCCGATATTGTCACGAAGCCACC
10	1523	CAGCGGCGTCCGAAATTGGCTCTC	GAGAGCCAATTTCGGACGCCGCTG
	1524	GGCTTGCTCTCGTTTTTGATTGCA	TGCAATCAAAAACGAGAGCAAGCC
	1525	ATGCGAGGAGGACACGACCGTTCC	GGAACGGTCGTGTCCTCCCCAT
	1526	CCTGTTCACTACGACCCACGGGAA	TTCCCGTGGGTCGTAGTGAACAGG
	1527	GTGCCACGGAGTGCGACTGTTGCT	AGCAACAGTCGCACTCCGTGGCAC
15	1528	ACACATCCAAGTCTGACGATGGCC	GGCCATCGTCAGACTTGGATGTGT
·	1529	CAGCCCGAAAGGAAAGCCTCCGTG	CACGGAGGCTTTCCTTTCGGGCTG
	1530	AACTGAATGTAGGTGGGCCCCTGT	ACAGGGGCCCACCTACATTCAGTT
	1531	ATTTTCGACGATAAGCTGGCCGGT	ACCGGCCAGCTTATCGTCGAAAAT
	1532	TGAGGGAGAACCCGAAATCTGCTT	AAGCAGATTTCGGGTTCTCCCTCA
20	1533	GGCGACTACATCCCCAATTGCTTG	CAAGCAATTGGGGATGTAGTCGCC
	1534	GCAGACGCGGCCTTCCATACTTTT	AAAAGTATGGAAGGCCGCGTCTGC
	1535	ACAACCACATGACGTGTAGCTGCA	TGCAGCTACACGTCATGTGGTTGT
	1536	CTGCTGGGCGCGCAAAGCTTGTTG	CAACAAGCTTTGCGCGCCCAGCAG
	1537	AAGCCTTCTTTGGCTTGCTCCGCT	AGCGGAGCAAGCCAAAGAAGGCTT
25	1538	TACCTGCTGCCTGGAGCAAGGCAT	ATGCCTTGCTCCAGGCAGCAGGTA
	1539	GACGCCGCAGCCATGAGTGAGTGT	ACACTCAGTCATGGCTGCGGCGTC
	1540	AGTTGGCCGCTTATTTTGCTCACC	GGTGAGCAAAATAAGCGGCCAACT
	1541	CCAGGCGCCTTCGACAGATCCTCA	TGAGGATCTGTCGAAGGCGCCTGG
	1542	GTGTCCCCTCCAGCTAGCCAGTTT	AAACTGGCTAGCTGGAGGGGACAC
30	1543	GACAACAAGCCAAGGTGACACGTC	GACGTGTCACCTTGGCTTGTTGTC
	1544	CTACACCGCTCGTGACTCGGCAAA	TTTGCCGAGTCACGAGCGGTGTAG
	1545	TGGTGCCATCAAAGCACGTTGTAC	GTACAACGTGCTTTGATGGCACCA
	1546	ACAATGCGTGTTGCGAAACGCATA	TATGCGTTTCGCAACACGCATTGT
	1547	TTGTCCAGCCATTGTATTTTGCGC	GCGCAAAATACAATGGCTGGACAA
35	1548	ACGAGAGATAGCGGACTCCTCCGA	TCGGAGGAGTCCGCTATCTCTCGT
	1549	AGCTTTGTCGTCAGGCGAGCTCTT	AAGAGCTCGCCTGACGACAAAGCT
	1550	GACAGTCGGCGTGCAGTTTGTTGT	ACAACAAACTGCACGCCGACTGTC
	1551	AGCTAGCGACGGCCAACTCACGTA	TACGTGAGTTGGCCGTCGCTAGCT
	1552	CTCCTGTTCGGGGCCGTTACTGGT	ACCAGTAACGGCCCCGAACAGGAG
40	1553	ACTGACCGACGCAGTGCCACATAG	CTATGTGGCACTGCGTCGGTCAGT
	1554	AGGTAGGGTCTGGTTTGACTCGCA	TGCGAGTCAAACCAGACCCTACCT
	·		

	1555	CCTCCATTTTAGCGCGTTGCCAAT	ATTGGCAACGCGCTAAAATGGAGG
	1556	TTCTTAGGATCCGCGCACTCTTGG	CCAAGAGTGCGCGGATCCTAAGAA
	1557	GTCGAAGGTGTCTACCGTGCGCAG	CTGCGCACGGTAGACACCTTCGAC
	1558	GTCACTCGGCGGCCCAATCACTCG	CGAGTGATTGGGCCGCCGAGTGAC
5	1559	TCTCGGTCACCCGTCTTGACCCTT	AAGGGTCAAGACGGGTGACCGAGA
	1560	GCCCTCGACGAACTCATCCTGAAC	GTTCAGGATGAGTTCGTCGAGGGC
	1561	TCCGGCGTACTCTGACACGGCGAT	ATCGCCGTGTCAGAGTACGCCGGA
	1562	AGCCAAATGCTTTCGTGGTTCGGA	TCCGAACCACGAAAGCATTTGGCT
	1563	ACTCCACGCCGCATGTTGCTGTGA	TCACAGCAACATGCGGCGTGGAGT
10	1564	GCTTCGAGTCGGTGGCATCTGTAT	ATACAGATGCCACCGACTCGAAGC
	1565	GGTCTTGGGCCATCGACTTGCTGC	GCAGCAAGTCGATGGCCCAAGACC
	1566	GGTATCGGACTGCACTAAGGGCAA	TTGCCCTTAGTGCAGTCCGATACC
	1567	AGCCCATGCGTTCCGGATGATTTG	CAAATCATCCGGAACGCATGGGCT
	1568	GCCAGGGTTAAAAGTGATGGGCTC	GAGCCCATCACTTTTAACCCTGGC
15	1569	GACGACGTGCTGGCTACGAAGGGG	CCCCTTCGTAGCCAGCACGTCGTC
	1570	TCCTATTGACCGTGCATCGTGATC	GATCACGATGCACGGTCAATAGGA
	1571	ACCCGCCTCGACTCCACAACTAAA	TTTAGTTGTGGAGTCGAGGCGGGT
	1572	GATGTGGATCACGACCTGCCAGTA	TACTGGCAGGTCGTGATCCACATC
	1573	GTGCCATTGCCACCCATAATGCGT	ACGCATTATGGGTGGCAATGGCAC
20	1574	TTAGCCTGTGCACCCAGTCAGGAG	CTCCTGACTGGGTGCACAGGCTAA
	1575	TCCGATGGGAGAGGCTGATCTCAC	GTGAGATCAGCCTCTCCCATCGGA
	1576	CACTACTGAAGTGGCCTGGCGCTG	CAGCGCCAGGCCACTTCAGTAGTG
	1577	TGCGGCCATAGCGATGTGATAGAT	ATCTATCACATCGCTATGGCCGCA
	1578	GATTGCGCTTAACGGAGATGCACG	CGTGCATCTCCGTTAAGCGCAATC
25	1579	TCACGTTTGACAACGCCAAGCATT	AATGCTTGGCGTTGTCAAACGTGA
	1580	GCATTGTTTGCTAAAGGCGGCATT	AATGCCGCCTTTAGCAAACAATGC
	1581	AGTCGCTCTACGCGTGCAACGCTG	CAGCGTTGCACGCGTAGAGCGACT
	1582	TAGCTCCATGGAGGTCCGAAAGGG	CCCTTTCGGACCTCCATGGAGCTA
	1583	GACCGGTTGGACCTCACTGGCTTC	GAAGCCAGTGAGGTCCAACCGGTC
30	1584	AAGCCGGACAGTCAATGTGCGTAT	ATACGCACATTGACTGTCCGGCTT
	1585	TGCCTCGCTGAGTTCTTCACCGTG	CACGGTGAAGAACTCAGCGAGGCA
	1586	TCGTAGACCTTGCTTTTGGGCTCA	TGAGCCCAAAAGCAAGGTCTACGA
	· 1587	ACCGCTATGCGCCCTACAAAGCAT	ATGCTTTGTAGGGCGCATAGCGGT
	1588	TAGCGTCACCGTAGCTTGGGGCAG	CTGCCCAAGCTACGGTGACGCTA
35	1589	CTCTCAGCAACTGATGGCACCGGA	TCCGGTGCCATCAGTTGCTGAGAG
•	1590	AAAGGAAATGTGGTGCTGGTCGGC	GCCGACCAGCACCACATTTCCTTT
	1591	CCGGCTTAGATGGAGAACAAGTGC	GCACTTGTTCTCCATCTAAGCCGG
	1592	AAGTAAATCGCCTCGCCCAAACCG	CGGTTTGGGCGAGGCGATTTACTT
	1593	TGGGCTGTTCAGCCTACCGGACGT	ACGTCCGGTAGGCTGAACAGCCCA
40	1594	GTTTCGGTTCAGCCATGGGCCTAC	GTAGGCCCATGGCTGAACCGAAAC
	1595	GGCCAACATTTCTAGGGGAGTGCC	GGCACTCCCCTAGAAATGTTGGCC

1		<del></del>	
	1596	TTCTTCGTTGGGATTGTCCTCACC	GGTGAGGACAATCCCAACGAAGAA
	1597	TGCACATTGGGGTACGGATCTGAC	GTCAGATCCGTACCCCAATGTGCA
	1598	GGCAGTTAGACGGCAAACTGCAGG	CCTGCAGTTTGCCGTCTAACTGCC
	1599	CGCGTCAGGCTATGAATGGCTCTT	AAGAGCCATTCATAGCCTGACGCG
5	1600	GCTGAATGCAAACCTCGGAGCCAT	ATGGCTCCGAGGTTTGCATTCAGC
	1601	CGCTCTGGCGGATTCATTGTTTTC	GAAAACAATGAATCCGCCAGAGCG
	1602	TTTTCAATCAACCCTCCGGACGTA	TACGTCCGGAGGGTTGATTGAAAA
	1603	GTGGTGGAGTCTGAAGCACGACAG	CTGTCGTGCTTCAGACTCCACCAC
	1604	AAACAGGTCCGGATGATGTCTGGA	TCCAGACATCATCCGGACCTGTTT
10	1605	GTACCGCGTGTACGCCACCGTTAG	CTAACGGTGGCGTACACGCGGTAC
	1606	TCCAACCTACATTTGCGGAAGGAA	TTCCTTCCGCAAATGTAGGTTGGA
	1607	GACGTACCGTCGTCCCGTGAGTTG	CAACTCACGGGACGACGGTACGTC
•	1608	GGCAATCCTACAACCGACGCTGAT	ATCAGCGTCGGTTGTAGGATTGCC
	1609	GGCGGCTGCAGGGTCTACATCGAG	CTCGATGTAGACCCTGCAGCCGCC
15	1610	ATACTACGCTGCAGCTGCGCGGC	GCCGCGCAGCTGCAGCGTAGTAT
	1611	GGATCGCAATCCCTCCGATGACGA	TCGTCATCGGAGGGATTGCGATCC
	1612	TGGCCTTGCACGGGAGCCGAATCT	AGATTCGGCTCCCGTGCAAGGCCA
	1613	AGGTGCCGACGAAACGACGAATAT	ATATTCGTCGTTTCGTCGGCACCT
	1614	GCTGTTTCACCGTCGTCGTTGTTG	CAACAACGACGACGGTGAAACAGC
20	1615	CGGTCCCAATGTTACAACCCAGAC	GTCTGGGTTGTAACATTGGGACCG
	1616	GCAATTCCAGCCACTTTTGACCAA	TTGGTCAAAAGTGGCTGGAATTGC
	1617	ACGGGCGAAAGCTCGGTACGGATA	TATCCGTACCGAGCTTTCGCCCGT
	1618	CGACCCGACTTTTGCTTTCGAGTG	CACTCGAAAGCAAAAGTCGGGTCG
	1619	AATTCAGTGTTTGCGTCATGGTCG	CGACCATGACGCAAACACTGAATT
25	1620	CCTGTATGAGGTTCTGGGTCGGCT	AGCCGACCCAGAACCTCATACAGG
	1621	TGGCATACTTGGTGCAAACGCCGT	ACGCCTTTGCACCAAGTATGCCA
	1622	TCGCCAGTACAGAAACATGCGGGC	GCCCGCATGTTTCTGTACTGGCGA
	1623	CCCGCTGTTGCTCTCATCGTGGAG	CTCCACGATGAGAGCAACAGCGGG
	1624	GCCACAATCTGACCCTGGGAATCA	TGATTCCCAGGGTCAGATTGTGGC
30	1625	GCTCAGTCTCGGAAGTTTCGGCTA	TAGCCGAAACTTCCGAGACTGAGC
	1626	CTTCACGGGCCAACGACGGTCGAG	CTCGACCGTCGTTGGCCCGTGAAG
	1627	CGACAGTTCCGTCCGTCTTGAGGA	TCCTCAAGACGGACGGAACTGTCG
	1628	ACGGAGACGCAGTCGAAACGTCCC	GGGACGTTTCGACTGCGTCTCCGT
	1629	CATGCATCCGATTAAGGGGATCAC	GTGATCCCCTTAATCGGATGCATG
<b>3</b> 5	1630	ATTGCGGGAGTCCCTAGCTTTCTG	CAGAAAGCTAGGGACTCCCGCAAT
	1631	GTGTGGAAGATGCAATTGGAACGG	CCGTTCCAATTGCATCTTCCACAC
	1632	ATACAACGGTAGGTGACAGGGGCG	CGCCCTGTCACCTACCGTTGTAT
	1633	GCCGTGGGAGTAAGGGTACAAAGG	CCTTTGTACCCTTACTCCCACGGC
	1634	GCACGTAGGTCGGCTACTACTCGG	CCGAGTAGTAGCCGACCTACGTGC
40	1635	ACTGTGATCTCTTGGGCAAAGGGC	GCCCTTTGCCCAAGAGATCACAGT
	1636	CATGCCTGAACAATCTCGCATCCC	GGGATGCGAGATTGTTCAGGCATG

			· · · · · · · · · · · · · · · · · · ·
	1637	GAGCCTGGCTCCACAGCTGTGCTC	GAGCACAGCTGTGGAGCCAGGCTC
	1638	CTTTCGATACCATCGTTGGCGATC	GATCGCCAACGATGGTATCGAAAG
	1639	CCCGGAGGTGAGGCATTGAATATG	CATATTCAATGCCTCACCTCCGGG
	1640	CTCATTCAGCTAAAAGCGGCTGGA	TCCAGCCGCTTTTAGCTGAATGAG
5	1641	GAAATGCCCTGGGGACTTTTTGCC	GGCAAAAAGTCCCCAGGGCATTTC
	1642	TTTGCCTTCACAACAGACGCAGCA	TGCTGCGTCTGTTGTGAAGGCAAA
	1643	AAATCCCAAGACGTCGGGGCGTAT	ATACGCCCGACGTCTTGGGATTT
	1644	CAACGGGCGGTAGCTAAACCGTAA	TTACGGTTTAGCTACCGCCCGTTG
	1645	GGCCAACGACAATGCGAAACCTTC	GAAGGTTTCGCATTGTCGTTGGCC
10	1646	GACATCACGCAAAATCTCAGCGCA	TGCGCTGAGATTTTGCGTGATGTC
	1647	ACGTTCCGTCCACAACCGTATGTT	AACATACGGTTGTGGACGGAACGT
	1648	GCTCATAGGTCTTCCGTAGCCCGT	ACGGCTACGGAAGACCTATGAGC
	1649	GAAACGAGTCTCTCGCGCCCTAGA	TCTAGGGCGCGAGAGACTCGTTTC
	1650	CGGGACAGAAGCAAGTTACATCGG	CCGATGTAACTTGCTTCTGTCCCG
15	1651	TGACCGCTCGATACCAGGAGGGTG	CACCCTCCTGGTATCGAGCGGTCA
	1652	CTGGCAATAAAGACCTTCCGACCA	TGGTCGGAAGGTCTTTATTGCCAG
	1653	TGCGCGACGTCATGTTGGTGATTA	TAATCACCAACATGACGTCGCGCA
	1654	GTTGGTGGGAACACACCCGCT	AGCGGGTGTGTTCCCACAACCAAC
	1655	TGTGGGTTCGGAAACACAGGAAGT	ACTTCCTGTGTTTCCGAACCCACA
20	1656	GGAAAAACGGCAATTAGCCGAGT	ACTCGGCTAATTGCCGTTTTTTCC
	1657	TGGTGCGGAGTGCCCTCTATTGGG	CCCAATAGAGGGCACTCCGCACCA
	1658	AACCAACAGGCTGCAGCCCAGACT	AGTCTGGGCTGCAGCCTGTTGGTT
	1659	AAACAGATCCATCTGCACGCCAGG	CCTGGCGTGCAGATGGATCTGTTT
	1660	GGAATACCGCGGCGATTATGGCTT	AAGCCATAATCGCCGCGGTATTCC
25	1661	TACTGTTCGCGGCAAACCGTCACT	AGTGACGGTTTGCCGCGAACAGTA
	1662	GATCTCTCGTGGAGCACGTTTTCC	GGAAAACGTGCTCCACGAGAGATC
	1663	GGCATAGCAAACCTTGACCTCCAA	TTGGAGGTCAAGGTTTGCTATGCC
	1664	ATCTGGGATTCGCGAGCCAATATC	GATATTGGCTCGCGAATCCCAGAT
	1665	CGATCAGGATATCATTTACGCCCG	CGGGCGTAAATGATATCCTGATCG
30	1666	ACGGTACCGAAACGGTCTCAGCGT	ACGCTGAGACCGTTTCGGTACCGT
	1667	CTCCCATACCTGCGTTCTTACCGA	TCGGTAAGAACGCAGGTATGGGAG
	1668	GCACGAGAACCTAATTGTCGCACA	TGTGCGACAATTAGGTTCTCGTGC
	1669	GCCACACGATCAAGACAGCGCATG	CATGCGCTGTCTTGATCGTGTGGC
	1670	CCCGTTAACTCACGAGCGGTCAAT	ATTGACCGCTCGTGAGTTAACGGG
35	1671	AGAGAAGGTCATTGCCTGTCGGTG	CACCGACAGGCAATGACCTTCTCT
	1672	CGGGCCCTCTTAAAGTAGAGCAGG	CCTGCTCTACTTTAAGAGGGCCCG
	1673	ACATCGCGTCCGAGGGAGTTAGCG	CGCTAACTCCCTCGGACGCGATGT
	1674	AATGCCTAATCGAGCCAGCGGATC	GATCCGCTGGCTCGATTAGGCATT
	1675	CTCGATCTTTTTAAACCGGCGCTT	AAGCGCCGGTTTAAAAAGATCGAG
40	1676	CGTTCCTGGAAGGCAGGGTCTCAC	GTGAGACCCTGCCTTCCAGGAACG
	1677	CCTGTGCTTACTATCGGCGATCCA	TGGATCGCCGATAGTAAGCACAGG

1678 GTTAGTCGCCCTATTGGCCTGGTT AACCAGGCCAATAGGC 1679 CCGGTGAGATGACTGTAAATGCCA TGGCATTTACAGTCATG 1680 CGTGGTTTAAAACATCGCGCTTCG CGAAGCGCGATGTTTT 1681 TAAGACGCAGAAGATGGGGTCCAC GTGGACCCCATCTTCT 1682 CACCACAGCTTCTTTGTTCGACCC GGGTCGAACAAAGAAC 1683 TCGGGTCCGTACCACCACTTTTGC GCAAAAGTGGTGGTAC 1684 CCAAGCCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG 1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCAC 1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATG/ 1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGG 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACAC 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCAC 1691 CGTATCGAAGGCGTGACAACCGG CCGGTTGTACACCGCCT 1692 TGCCCGCCCTTTATGCAACCGCTCA TGAGCGTTGCATAAAGC 1693 AAACTTACGAGACGGCGGCTGCCA TGGCAGCCGCCGTCTC	CTCACCGG TAAACCACG TGCGTCTTA GCTGTGGTG CGGACCCGA GGGCTTGG TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1680 CGTGGTTTAAAACATCGCGCTTCG CGAAGCGCGATGTTTT  1681 TAAGACGCAGAAGATGGGGTCCAC GTGGACCCCATCTTCT  1682 CACCACAGCTTCTTTGTTCGACCC GGGTCGAACAAAGAAC  1683 TCGGGTCCGTACCACCACTTTTGC GCAAAAGTGGTGGTACA  1684 CCAAGCCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG  1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA  1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATGA  1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT  1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA  1689 GTACCCGCGCCTTCCTCGACACAG CTGTTCGAGGAAGGG  1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA  1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT  15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAGGCTT	TAAACCACG TGCGTCTTA GCTGTGGTG CGGACCCGA GGGGCTTGG TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1681 TAAGACGCAGAAGATGGGGTCCAC GTGGACCCCATCTTCT 1682 CACCACAGCTTCTTTGTTCGACCC GGGTCGAACAAAGAAC 1683 TCGGGTCCGTACCACCACTTTTGC GCAAAAGTGGTGGTAC 1684 CCAAGCCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG 1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA 1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATG/ 1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA- 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA- 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAGCTT	GCGTCTTA GCTGTGGTG CGGACCCGA GGGCTTGG TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT
1682 CACCACAGCTTCTTTGTTCGACCC GGGTCGAACAAGAAC  1683 TCGGGTCCGTACCACCACTTTTGC GCAAAAGTGGTGGTAC  1684 CCAAGCCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG  1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA  1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATGA  1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT  1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA  1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG  1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA  1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT  15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAGCCT	GCTGTGGTG CGGACCCGA GGGCTTGG TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT
1683 TCGGGTCCGTACCACCACTTTTGC GCAAAAGTGGTGGTAC 1684 CCAAGCCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG 1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA' 1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATG/ 1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA' 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGC 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA' 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCTT 15 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAGGCTT	CGGACCCGA CGGGCTTGG TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1684 CCAAGCCCGAGTACCGAAGATTT AAATCTTCGGTACTCG 1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA 1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATGA 10 1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1685 TCCGTGATATGGTCGTGGCGCGGT ACCGCGCCACGACCA  1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATG/  1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT  1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA  1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGG  1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA  1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT  15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAGG	TATCACGGA ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1686 TGTCTGTGTCATGGCACCTCGCAT ATGCGAGGTGCCATG/ 10 1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	ACACAGACA TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1687 AGGACTGCACTGTGCACGTCTGAT ATCAGACGTGCACAGT 1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACA- 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA- 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	TGCAGTCCT TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1688 CCATCCTCATGTACAGCGCCGCTG CAGCGGCGCTGTACAT 1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCAA 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	TGAGGATGG CGCGGGTAC AGGACCCGT TTCGATACG
1689 GTACCCGCGCCTTCCTCGACACAG CTGTGTCGAGGAAGGG 1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	CGCGGGTAC AGGACCCGT TTCGATACG
1690 ACGGGTCCTGGTCGACTAAGGCTT AAGCCTTAGTCGACCA 1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCC 15 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	AGGACCCGT TTCGATACG
1691 CGTATCGAAGGCGTGTACAACCGG CCGGTTGTACACGCCT 15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	TTCGATACG
15 1692 TGCCCGCCCTTTATGCAACGCTCA TGAGCGTTGCATAAAG	
	20000000
1693 AAACTTACGAGACGGCGGCTGCCA TGGCAGCCGCCGTCT	AJJJJJJJJJJJJJJ
	CGTAAGTTT
1694 AAGTCTGACAAACGGAACGGGTGT ACACCCGTTCCGTT	TCAGACTT
1695 TAAGCGCAGACCAAAGTATGCGGC GCCGCATACTTTGGTC	CTGCGCTTA
1696 GCAGTTTTCAGATCCTCCGCAAA TTTGCGGAGGATCTGA	AAAAACTGC
20 1697 TCGGAAGCATTTACGCGATCTCAG CTGAGATCGCGTAAAT	IGCTTCCGA
1698 CACAGAAACGGTTGAACGAACGCC GGCGTTCGTTCAACCC	3TTTCTGTG
1699 GCATGCTCAGATGGTCGTGCTCAC GTGAGCACGACCATC	TGAGCATGC
1700 AAGGATTCTCGCTTCCGGCATGAT ATCATGCCGGAAGCG	AGAATCCTT
- 1701 GGTGGGGTAGCGCTGGTATGAAAA TTTTCATACCAGCGCT	ACCCCACC
25 1702 ATTATTACGGGACCGAACCAACGG CCGTTGGTTCGGTCCC	CGTAATAAT
1703 GCGCGAGTGTCATGATGTTCACGT ACGTGAAGATCATGAC	ACTCGCGC
1704 GACATTCGTGACTTGGTCGTCCGC GCGGACGACCAAGTC	ACGAATGTC
1705 TCATTAGTGCAGGCACCGATCAAG CTTGATCGGTGCCTGC	CACTAATGA
1706 GAGTTGTGCGGAGTCATCGGAGTC GACTCCGATGACTCCC	3CACAACTC
30 1707 GCCTTTACAGATTTGGCGGGCTAT ATAGCCCGCCAAATCT	IGTAAAGGC
1708 ATGGCGTTTGCGAAGTCGATACAG CTGTATCGACTTCGCA	VAACGCCAT
1709 TGCATCGGCCTCAATCAGAGAACT AGTTCTCTGATTGAGG	CCGATGCA
1710 ACAATCATGGCAATCTGGCAAATG CATTTGCCAGATTGCC	ATGATTGT
1711 GACGTGGAAGAGTGCAGATCAGCA TGCTGATCTGCACTCT	TCCACGTC
35 1712 AGGGCAGGGGACGGACAGTAAGTC GACTTACTGTCCGTCC	CCTGCCCT
1713 GCATAGGGCGAATCTAGTACGGGC GCCCGTACTAGATTCC	3CCCTATGC
1714 TCCGGCGCATCCTCATTAGCAACT AGTTGCTAATGAGGAT	rgcgccgga
1715 TGGCCGCTTCCACTAATATTGGAC GTCCAATATTAGTGGA	AGCGGCCA
1716 CCGGCGGACGGCTCTTGTCAATGA TCATTGACAAGAGCCC	STCCGCCGG
40 1717 CGAGCAACCCAAAAGGAAGCAGTA TACTGCTTCCTTTTGG	GTTGCTCG
1718 GCGTATGATTCGGCAATCCGCCAG CTGGCGGATTGCCGA	ATCATACGC

			<del>_</del>
	1719	AGTACCGCTACAACGCTGGTTCGC	GCGAACCAGCGTTGTAGCGGTACT
•	1720	GGGCAGGCCAGGTCCACCTGAGAA	TTCTCAGGTGGACCTGGCCTGCCC
	1721	CCACTTCTGTGACCGAACCGTGCT	AGCACGGTTCGGTCACAGAAGTGG
	1722	CCTGGTACCAGGCAGCAGTTGATT	AATCAACTGCTGCCTGGTACCAGG
5	1723	TTAGGGTACCGTCGAGAGACGCCA	TGGCGTCTCTCGACGGTACCCTAA
	1724	GGTTGCTTGTGCGCGTGAGGTAGT	ACTACCTCACGCGCACAAGCAACC
	1725	TGCTTCGACCGATGAAACTCGAAG	CTTCGAGTTTCATCGGTCGAAGCA
	1726	TGCCACCCATACTATGCCCAGTGG	CCACTGGGCATAGTATGGGTGGCA
	1727	TGTGCGGCAACGCGTGAAGACGTT	AACGTCTTCACGCGTTGCCGCACA
10	1728	TGAGAGAAGCTGGCCTCGGATCAG	CTGATCCGAGGCCAGCTTCTCTCA
	1729	TATTGCGAATTCGAGTACGTGCCC	GGGCACGTACTCGAATTCGCAATA
	1730	CGAGAGGGGTTCCCCAGTGATCGA	TCGATCACTGGGGAACCCCTCTCG
	1731	TGCCTGGGGTGTCGTTCTAATTCT	AGAATTAGAACGACACCCCAGGCA
	1732	GTGCGTCATTGTGGGTCATCCCAA	TTGGGATGACCCACAATGACGCAC
15	1733	AGGGCTCCCAGCATACCAACGTTG	CAACGTTGGTATGCTGGGAGCCCT
!	1734	AACTAGCCGCACCTTTGTGCAGAG	CTCTGCACAAAGGTGCGGCTAGTT
	1735	TTAGCCCAGCCCTTCAATGGGAAC	GTTCCCATTGAAGGGCTGGGCTAA
	1736	CGGCCTCGGTTGTACGGGTAGTCT	AGACTACCCGTACAACCGAGGCCG
	1737	TCTTTGAGGCGCGGACCCGCATAT	ATATGCGGGTCCGCGCCTCAAAGA
20	1738	GATGGTTCGCCCTTGTGTCGCAGC	GCTGCGACACAAGGGCGAACCATC
	1739	GAGATTCAATACAGGCCGCGGGTC	GACCCGCGCCTGTATTGAATCTC
	1740	AGGGCGAAGGAAGGTTCCGTTTTT	AAAAACGGAACCTTCCTTCGCCCT
	1741	CTCGACCCCTGCCACTACTGGTTC	GAACCAGTAGTGGCAGGGGTCGAG
	1742	TGTTCCGCGGTCTACGCATTACTG	CAGTAATGCGTAGACCGCGGAACA
25	1743	GAGACGACGTCCTACACCCGCTAA	TTAGCGGGTGTAGGACGTCGTCTC
	1744	AGATTGCGACAGCGACACGTGATT	AATCACGTGTCGCTGTCGCAATCT
	1745	GATACCGTTGGGCATTTCTCGGTA	TACCGAGAAATGCCCAACGGTATC
	1746	GATTGGGAGGCATTCAGCGACGGA	TCCGTCGCTGAATGCCTCCCAATC
	1747	AGGAGGAAACGAGGGCGTAGGTTC	GAACCTACGCCCTCGTTTCCTCCT
30	1748	GCCAAACAACGTCTGACGCCTAGC	GCTAGGCGTCAGACGTTGTTTGGC
	1749	TTTAATGCGGAAAGGATGCACGCG	CGCGTGCATCCTTTCCGCATTAAA
	1750	TTATCGGCCGTTAAAATGGGATGG	CCATCCCATTITAACGGCCGATAA
	1751	CCTTGGATTCGTTCATCGCTAGCA	TGCTAGCGATGAACGAATCCAAGG
	1752	AAGTGAACGTGCAGTGGTCTTCGA	TCGAAGACCACTGCACGTTCACTT
35	1753	TCCTTACCCCTCGTTCAAACGCCT	AGGCGTTTGAACGAGGGGTAAGGA
	1754	ATTCCTGAACCATGCATGGCCTGT	ACAGGCCATGCATGGTTCAGGAAT
	1755	AGCGAGACGCTCGATCACGAACTA	TAGTTCGTGATCGAGCGTCTCGCT
	1756	GCTGGTCTGGCTCGCTGTTTAGAA	TTCTAAACAGCGAGCCAGACCAGC
	1757	CGTGCGCGCATAAAGATAGGTCT	AGACCTATCTTTATGCCGCGCACG
40	1758	TCTGGCACTCACATCGGACAGTCT	AGACTGTCCGATGTGAGTGCCAGA
	1759	ACCATTGGAGGACCACAGAGCTCC	GGAGCTCTGTGGTCCTCCAATGGT

	1760	TCCAGGGTCGGAGTACATGGCGGG	CCCGCCATGTACTCCGACCCTGGA
	1761	ATATGCCGTCGGATCGTACACGCA	TGCGTGTACGATCCGACGGCATAT
	1762	TGCTGGCGTCAACACTTCCCGATT	AATCGGGAAGTGTTGACGCCAGCA
	1763	CAGGGCGGTGCGGTGAACTAGCCA	TGGCTAGTTCACCGCACCGCCCTG
5	1764	CATGGACTGCCGTACATCAGCTGG	CCAGCTGATGTACGGCAGTCCATG
	1765	CCGGCCATACGCTGGCAAGATTAC	GTAATCTTGCCAGCGTATGGCCGG
	1766	AGCGGACACCTGTACTCTCCTCCA	TGGAGGAGAGTACAGGTGTCCGCT
[	1767	GGAGCCACACCAGTCGAAGATGGT	ACCATCTTCGACTGGTGTGGCTCC
	1768	CGCCACCGGAAATTGAAAAGACTG	CAGTCTTTTCAATTTCCGGTGGCG
10	1769	TGAAACGGATGTTGCTTCTTGACG	CGTCAAGAAGCAACATCCGTTTCA
`	1770	TTGAAGCGGTGAAGAGCCTGTCCT	AGGACAGGCTCTTCACCGCTTCAA
	1771	CGAACCAAGCTGCATTGTCAGTGG	CCACTGACAATGCAGCTTGGTTCG
	1772	GAGTCTGCGCTTGCAATCTTTGCG	CGCAAAGATTGCAAGCGCAGACTC
	1773	GCTGGGTATAGTTGCCTGGCAATG	CATTGCCAGGCAACTATACCCAGC
15	1774	GCAGGCGTTCCATATTCGCAACCC	GGGTTGCGAATATGGAACGCCTGC
	1775	GCGCCAACTAATACCTCCACCGCG	CGCGGTGGAGGTATTAGTTGGCGC
	1776	TGGCGTTCAGTGCAACGCTGGTTA	TAACCAGCGTTGCACTGAACGCCA
	1777	CAAAACTGACGGGTATGGGAGCGC	GCGCTCCCATACCCGTCAGTTTTG
	1778	AGGTGTCGCTGGAACCCGACTTGT	ACAAGTCGGGTTCCAGCGACACCT
20	1779	CTTCCAAAAGCGCAATTGGCTTTG	CAAAGCCAATTGCGCTTTTGGAAG
-	1780	TCGGGCTTCTCGCAATTCTGTCAG	CTGACAGAATTGCGAGAAGCCCGA
	1781	GCCAAAAGAATGCGCTGGGTAGGT	ACCTACCCAGCGCATTCTTTTGGC
	1782	TGGTGCCCGCACCGAGAGACTGTA	TACAGTCTCTCGGTGCGGGCACCA
	1783	CGAGGCCGTAGTGGGGACTGCTCT	AGAGCAGTCCCCACTACGGCCTCG
25	1784	CGATCTGCGCATAGAGGGGACTTT	AAAGTCCCCTCTATGCGCAGATCG
	1785	TGTGCAATCGGCCTTCTCAGAGCC	GGCTCTGAGAAGGCCGATTGCACA
	1786	GATCACCTGGACCGCTACCGTTTT	AAAACGGTAGCGGTCCAGGTGATC
	1787	ATGGGGAGTTAAGGACCCTGCACC	GGTGCAGGGTCCTTAACTCCCCAT
	1788	CATTGTGGACAGCCAATGGTGGCT	AGCCACCATTGGCTGTCCACAATG
30	1789	CCATCACCATGCCACGGTAAGATC	GATCTTACCGTGGCATGGTGATGG
* :	1790	GCACCCGTGTCGTTGGTTAGCAAG	CTTGCTAACCAACGACACGGGTGC
	1791	GGAGTGGGTTCCGCGAATTCACTG	CAGTGAATTCGCGGAACCCACTCC
	1792	GGGGATTTCCTTTCGCAGGCTCGA	TCGAGCCTGCGAAAGGAAATCCCC
	1793	CATTGATCATGTGCACCA	TGGTGCAAGTGCACATGATCAATG
35	1794	AGCAGCGCTGCGCTTGTTTCGGAT	ATCCGAAACAAGCGCAGCGCTGCT
	1795	CGAGTAACGCGGTTGCTTTGCGAA	TTCGCAAAGCAACCGCGTTACTCG
	1796	TGGCCTGGAACATAGGTGGAACTC	GAGTTCCACCTATGTTCCAGGCCA
	1797	CGCACACCAAGCGTTTATTGAGAA	TTCTCAATAAACGCTTGGTGTGCG
	1798	TCACCTTCACAGTGGGCATACAGC	GCTGTATGCCCACTGTGAAGGTGA
40	1799	CAAATATCCCTGAGCCCTCGAGCT	AGCTCGAGGGCTCAGGGATATTTG
	1800	GGGAGCTGGTGAGCAGATGTAACG	CGTTACATCTGCTCACCAGCTCCC

	1801	AGGATTGCTTTTGCGTTATGCGGA	TCCGCATAACGCAAAAGCAATCCT
	1802	ATCGTTTGGGCGCTACGCAATTGT	ACAATTGCGTAGCGCCCAAACGAT
	1803	CCGATTTGTCCCAAATGCAACGTT	AACGTTGCATTTGGGACAAATCGG
	1804	AAGGGTCAAGCTCATGGAGCGGAA	TTCCGCTCCATGAGCTTGACCCTT
5	1805	TCTGACGTCGTTCAAGGGCTCGCT	AGCGAGCCCTTGAACGACGTCAGA
	1806	CGCACCACTCCGAGGTATTTGTCT	AGACAAATACCTCGGAGTGGTGCG
	1807	AAGGGGTGAAAAAGGAGAAGCCGA	TCGGCTTCTCCTTTTTCACCCCTT
	1808	AAACCACGCAAATGGCGATACCAT	ATGGTATCGCCATTTGCGTGGTTT
	1809	CAGAAGGATGACGCCTTAAGTCG	CGACTTAAGGCGTCATCCCTTCTG
10	1810	CATGACGAGAGCGGACCTGAAGTG	CACTTCAGGTCCGCTCTCGTCATG
	1811	CTGGACATGTTTGTTTCGCCACTG	CAGTGGCGAAACAACATGTCCAG
	1812	AAGACCGACTCTCGTCGTTTGCAC	GTGCAAACGACGAGAGTCGGTCTT
	1813	GCGCGATTACATACCGTTTCCGTA	TACGGAAACGGTATGTAATCGCGC
	1814	CACTGACCGGACCCAACCTAACAT	ATGTTAGGTTGGGTCCGGTCAGTG
15	1815	AGTGCAAGTCTAGACACGCCCGAG	CTCGGGCGTGTCTAGACTTGCACT
	1816	GGTTGGTGCGAGATCCTGGACTGT	ACAGTCCAGGATCTCGCACCAACC
	1817	GGTCGTCCCGAAACGTAAACGAGG	CCTCGTTTACGTTTCGGGACGACC
	1818	GACTAGTACGATCACGGGGCGGGT	ACCCGCCCGTGATCGTACTAGTC
	1819	CCGACCTGACCCTGTGTACAGGTT	AACCTGTACACAGGGTCAGGTCGG
20	1820	TGCTCACTGCCCACACTGTTATGG	CCATAACAGTGTGGGCAGTGAGCA
	1821	CGAGGAAACACATTTCTTCGGGCC	GGCCCGAAGAAATGTGTTTCCTCG
	1822	TGGCACCGGGTGGATTCTTGTCTA	TAGACAAGAATCCACCCGGTGCCA
	1823	GAGGCACGGTGATAGTGGTTGTGC	GCACAACCACTATCACCGTGCCTC
	1824	ATGCAGATGGATCTTTTTCGACGC	GCGTCGAAAAAGATCCATCTGCAT
25	1825	TGCGATAGCCAAAGAGTCGAGGAC	GTCCTCGACTCTTTGGCTATCGCA
	1826	ATGGCGTGTCAGCGAACTGCCTGG	CCAGGCAGTTCGCTGACACGCCAT
	1827	CAATGCAGCTCGGAAGTCAGGTCG	CGACCTGACTTCCGAGCTGCATTG
	1828	AGGATCAGTGCACATGTCCCCTCA	TGAGGGGACATGTGCACTGATCCT
	1829	CACATCTTGGCTGTCACCCGAGAA	TTCTCGGGTGACAGCCAAGATGTG
30	1830	CGCATTATCACCTCAATGCCAGTG	CACTGGCATTGAGGTGATAATGCG
	1831	ACATCCGCAGACTCCCTATAGCCC	GGGCTATAGGGAGTCTGCGGATGT
	1832	GTGAACCCGAACGAGGGGAGTCTC	GAGACTCCCCTCGTTCGGGTTCAC
	1833	GCGTAGGGAATTTGCCTCACGACT	AGTCGTGAGGCAAATTCCCTACGC
	1834	TTTACGCGTCGCTCGGTTGTAGTG	CACTACAACCGAGCGACGCGTAAA
35	1835	GAGAGGCGTCTAGGCGGTTCTAGC	GCTAGAACCGCCTAGACGCCTCTC
	1836	GCATGCTGATAACGAATGCTTCCC	GGGAAGCATTCGTTATCAGCATGC
	1837	CTGAAGCTCGTGTGCGATGAGGGA	TCCCTCATCGCACACGAGCTTCAG
	1838	ACAACGGCATGAGGAGGCTTTTTC	GAAAAAGCCTCCTCATGCCGTTGT
	1839	TTTGGAGACGCCAGTACGCGTGGT	ACCACGCGTACTGGCGTCTCCAAA
40	1840	GCTATCATTTGGTGTAAGCCCGCC	GGCGGGCTTACACCAAATGATAGC
	1841	TCAACATCCAGGGCGGTGCTTGGT	ACCAAGCACCGCCCTGGATGTTGA

	1842	TTCGATGTAATCCCCAAAGATGCC	GGCATCTTTGGGGATTACATCGAA
	1843	GGACCTTCGGCAGGTTATCGCCGT	ACGGCGATAACCTGCCGAAGGTCC
	1844	AGTAAGAAGAGGCAGGCCCACCT	AGGTGGGCCTGCCTCTTCTTACT
	1845	AACGGCTCCCCGTCGTACTGCTTA	TAAGCAGTACGACGGGGAGCCGTT
5	1846	CCTATACCGTCGTGGTTCCACGTT	AACGTGGAACCACGACGGTATAGG
	1847	CCGCGCAGGCGCTAATACTCAAGG	CCTTGAGTATTAGCGCCTGCGCGG
	1848	AAATGGGCCAGTGAAATCCTTGGT	ACCAAGGATTTCACTGGCCCATTT
•	1849	ACGGTTTCGAATACTGCTGGGCAG	CTGCCCAGCAGTATTCGAAACCGT
	1850	CCGCTTGAGGTTCAGGTCAGAGCT	AGCTCTGACCTGAACCTCAAGCGG
10	1851	ATCGTGCCCGAAGACACTTAAACG	CGTTTAAGTGTCTTCGGGCACGAT
	1852	ACCTGAACCAGGGCGATTGCTTTA	TAAAGCAATCGCCCTGGTTCAGGT
	1853	ACCCTATACGCTGGGCTAAGCGGG	CCCGCTTAGCCCAGCGTATAGGGT
	1854	TGTTTCGCGACTAGAAGCCTTTGC	GCAAAGGCTTCTAGTCGCGAAACA
	1855	GAAGTTGGCGGCTCACCCGTATTA	TAATACGGGTGAGCCGCCAACTTC
15	1856	TGGCTACACCGCTTAGGAGGAACC	GGTTCCTCCTAAGCGGTGTAGCCA
	1857	CCACAGTTGCGTGACTTACATCGC	GCGATGTAAGTCACGCAACTGTGG
	1858	ACTGCCACTGCGTCTGAAGAGTGG	CCACTCTTCAGACGCAGTGGCAGT
	1859	GCGCCAGCAAATTTCGTGTGGTGT	ACACCACACGAAATTTGCTGGCGC
	1860	TGCCTCCGTCGAGCCGAATAGCCA	TGGCTATTCGGCTCGACGGAGGCA
20	1861	GTACAAACGGGCGCTATTTCGTCC	GGACGAAATAGCGCCCGTTTGTAC
	1862	GCTTCCCTGGCTCTGAACGGAAAC	GTTTCCGTTCAGAGCCAGGGAAGC
	1863	CGGCTACCCAGGCAGATAAGCTGA	TCAGCTTATCTGCCTGGGTAGCCG
	1864	GGTTGGACCCGACAGGGAATTTCC	GGAAATTCCCTGTCGGGTCCAACC
	1865	GGGGAATACCCGGCGTTTGTAATA	TATTACAAACGCCGGGTATTCCCC
25	1866	TGGTTCGGTGAGGTTATGTTCGGT	ACCGAACATAACCTCACCGAACCA
	1867	TCGGTAGGGTTCAGTCGCTGAGGA	TCCTCAGCGACTGAACCCTACCGA
	1868	TTCGGAGTGTGCCGGTGCTAGTAC	GTACTAGCACCGGCACACTCCGAA
	1869	TCGTACTGGAATGATGGCCGGGCC	GGCCCGGCCATCATTCCAGTACGA
	1870	TCCGTCGACCGTCCAGCGAAGTTT	AAACTTCGCTGGACGGTCGACGGA
30	1871	AGGGAATATAACAACACCGCGCAC	GTGCGCGGTGTTGTTATATTCCCT
	1872	ATGTCCCGGAAACCAGCTACCTCA	TGAGGTAGCTGGTTTCCGGGACAT
	1873	ACCAGCGACTTAGATAGCCGTCCG	CGGACGCTATCTAAGTCGCTGGT
	1874	GGAAAACCTCCTTTGCGTCAACCA	TGGTTGACGCAAAGGAGGTTTTCC
	1875	ACGTGCGTGCATACCCAAGAGGAC	GTCCTCTTGGGTATGCACGCACGT
35	1876	ACGCCACTTTCCCTAGAACCAACG	CGTTGGTTCTAGGGAAAGTGGCGT
	1877	CGAAGTACGCAATAGTGCCACCCT	AGGGTGGCACTATTGCGTACTTCG
	1878	GATCCCGGCGGATCACCTATCAAT	ATTGATAGGTGATCCGCCGGGATC
	1879	AGAAAGCGACCGTTTCAGGCTAGC	GCTAGCCTGAAACGGTCGCTTTCT
	1880	CGCTCCCTTTCATAGTCCTCTCCG	CGGAGAGGACTATGAAAGGGAGCG
40	1881	GTGGGTGGTCATAACGACAGCAGA	TCTGCTGTCGTTATGACCACCCAC
	1882	CTGGAGGCTGCATCGTTCGTAACA	TGTTACGAACGATGCAGCCTCCAG

	1883	CACCATGAGTTTCGGAGCGAGGAT	ATCCTCGCTCCGAAACTCATGGTG
	1884	CAAGCTGCGTTCGATGAGAGATTG	CAATCTCTCATCGAACGCAGCTTG
	1885	CCTGGGAGCAATGACCGCTCTGGT	ACCAGAGCGGTCATTGCTCCCAGG
	1886	TCCGGCGCTCTACCAAGATGAGAC	GTCTCATCTTGGTAGAGCGCCGGA
5	1887	CGACCGCGTCGCGTATACTATCCG	CGGATAGTATACGCGACGCGGTCG
	1888	AACATTCGCTAGTGGGGTCCAACA	TGTTGGACCCCACTAGCGAATGTT
	1889	TGTATGATCATCCGACCGAGCAGC	GCTGCTCGGTCGGATGATCATACA
	1890	AGTGCGCCGAGAGGGTGAATAGAC	GTCTATTCACCCTCTCGGCGCACT
	1891	AGGCTTGTTCTGGACCAGCACCAT	ATGGTGCTGGTCCAGAACAAGCCT
10	1892	GGGGCCACATAAAGAATTCCGAAC	GTTCGGAATTCTTTATGTGGCCCC
	1893	TGGTGAAGATAAATCCGCATGGCA	TGCCATGCGGATTTATCTTCACCA
	1894	ATTTCCACCACGCTCTTGCCAAAT	ATTTGGCAAGAGCGTGGTGGAAAT
	1895	CGCGTAAAGCTGTCACCGATGACC	GGTCATCGGTGACAGCTTTACGCG
	1896	TCCCCAACCGGTAACAACAGCGAC	GTCGCTGTTGTTACCGGTTGGGGA
15	1897	CCTCTGCTCGCCTTACACCCATGG	CCATGGGTGTAAGGCGAGCAGAGG
	1898	CAAGCTGCTCCTGTGCTGAAGGGC	GCCCTTCAGCACAGGAGCAGCTTG
	1899	AAACGAACGATGGTCGGTAGACCG	CGGTCTACCGACCATCGTTCGTTT
	1900	TCAGTTCGATGGCTATTGCGCCTC	GAGGCGCAATAGCCATCGAACTGA
	1901	GGCTCTCAACGGACGCAAATCATA	TATGATTTGCGTCCGTTGAGAGCC
20	1902	AGTAGAGTGTTGCGGCTGCCGATC	GATCGGCAGCCGCAACACTCTACT
	1903	AGACACTAGACCGCCGTGACCTGA	TCAGGTCACGGCGGTCTAGTGTCT
	1904	ACCGAGCACCGAATTTCCTTGTCC	GGACAAGGAAATTCGGTGCTCGGT
	1905	CCGTGGCCAAGATACGAACGAATT	AATTCGTTCGTATCTTGGCCACGG
	1906	CCTCCTACAGCATCCACATGAGGG	CCCTCATGTGGATGCTGTAGGAGG
25	1907	CACTCGGCAAATACGTATGCGCAT	ATGCGCATACGTATTTGCCGAGTG
	1908	ACCGAGTTGAAGCACGAATTTGGG	CCCAAATTCGTGCTTCAACTCGGT
	1909	GACCACCTCGGAAGATCGTTCTGC	GCAGAACGATCTTCCGAGGTGGTC
	1910	TCAACTGGGCAAACGAAGAGCACA	TGTGCTCTTCGTTTGCCCAGTTGA
	1911	GCTTAGCCTCACACGTGCATACCA	TGGTATGCACGTGTGAGGCTAAGC
30	1912	CTGCGGTCTCCAAGTACCATTTCG	CGAAATGGTACTTGGAGACCGCAG
	1913	GTTCCGTATTACGGCGGCCATAAG	CTTATGGCCGCCGTAATACGGAAC
	1914	ATCGACGCAACCGGATAGTCTCTG	CAGAGACTATCCGGTTGCGTCGAT
	1915	CGCAGATAAACCGGCATCTTTCAG	CTGAAAGATGCCGGTTTATCTGCG
	1916	ACCTGCCAATACGGGTCTACGGTT	AACCGTAGACCCGTATTGGCAGGT
35	1917	ACACCTGTTGCCATGCTGATCCGT	ACGGATCAGCATGGCAACAGGTGT
	1918	AAACTGTCTACTGCGCAATTCCGC	GCGGAATTGCGCAGTAGACAGTTT
	1919	GCAACTAGCCCGTGCTAGGATCGT	ACGATCCTAGCACGGGCTAGTTGC
	. 1920	TCGTAGTGGTGGATTGTTGTGCGT	ACGCACAACAATCCACCACTACGA
	1921	GGCTTACTCCTCAATTGCGACACG	CGTGTCGCAATTGAGGAGTAAGCC
40	1922	CACGACTCCCTGCCAGATTTGATT	AATCAAATCTGGCAGGGAGTCGTG
	1923	CTTAGACGTCGGCAATGTCACGTC	GACGTGACATTGCCGACGTCTAAG

1924 CTCAGAGCACAATCTGCCCTGCT AGGCAGGCACATTGTGCTCT 1925 GCTAGGAAAGTCGGCATTCATGGG CCCATGAATGCCGACTTTCT 1926 AAAGCCCCAAAATTCCGCCTAACC GGTTAGGCGGACTTTTGGGG 1927 GCGCAACGCTAAGGGACTATCAG CTTGATAGTCCCTTAGCGTTGG 1928 CGTCCGCTGGGATGAGTCTCCTGC GCAGGAACTCATCCCAGCGC 1929 ACAGGCCTCGTGATTGGTGTGGGT ACCCACACCAATCACGAGGCC 1930 CATTCTCCTTCCGGGACCACGCCT AGGCGTGGTCCCGGAAGGAG 1931 TCGGAGTTGACACACGCCT AGGCGTGGTCCCGGAAGGAG 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAATGCATGGAG 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGCG 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGCG 1933 AGTTCATGAGGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGCCCCTAC GTAGGCGGGCCCCCCATTGAA 1935 TGAGGCTTTAGCCTACGCGCAGGT ACCTCGCGCTTAGACCC 1936 CAGCGTTATGACCCCGCGCAGT ACCTCGCGCTAGACCAC 1937 GTCCACGTGCCCACGGAACACC GTAAACCCCCCAAAACACACTTACACGCGCGCTCATAACGC 1939 GTCCACGTGACCACGGATTATA ATAAACTCCGGCGCTCATAACG 1939 TCGTCAAGGGCATGATGTGG CCAACTATCCGTGGTCACGTG 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC 1941 TACACGAGGATGGGTCAACCTTT 1942 ACACGCACAAAACGTTTGAACGC CCGACACATCATGCCCTTGAA 1941 TACACGAGGATGGGTCAACCTTT 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGCGCG 1944 ACATGACGCTGAACCTTGA TCAAGGTGTTTTGGCG 1945 GAAGGCGGAACCACTGAACCTTCG 1946 TGACTTTTGCAACGGTGGAACCA TCAAGCTTTTCACCCCTTTCCACACGCTTCCTCGC 1946 TGACTTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTTCCACACGTTTCCACCCGTTTCAAACGTTTTCAGTCGCCCCACAAACCTTTGAACTCCTTCGCCTTTCAACCTTTCAACCTTTCACCCCGTTTCCAAAACGTTTTCAGTGGTTCCGCCCACAAACCTTCAAACTTTTTGGCGCCCACAAACCATTTTGGGTCGCC CCGAACCCAAAACCTACAACGTTTTGGGTCGCC CCGAATGCCCCCAAAACCTACAAACGTTTTTCAGTGGTTCCACCCGTTTCCAAAACGTTTTCAGCCCCATTCCTCCCGCTTCCAAACCTACGAACCACGGAACAACACACTACGAACCACTGAACCACACGAAACACACTACAACCACGAAACACACGAACACACAC				
1926 AAAGCCCAAAATTCCGCCTAACC GGTTAGGCGGAATTTTGGGGC 1927 GCGCAACGCTAAGGGACTATCAAG CTTGATAGTCCCTTAGCGTTGG 1928 CGTCCGCTGGGATGAGTCTCCTGC GCAGGAGACTCATCCCAGCGC 1929 ACAGGCCTCGTGATTGGTGTGGGT ACCCACACCAATCACGAGGCC 1930 CATTCTCCTTCCGGGACCACGCCT AGGCGTGGTCCCGGAAGGAG 1931 TCGGAGTTGACCAAGCCTCAGTGCG CGCACTGAGCTTGGTCAAGCC 1932 ACGCCCACTGCAATTGCAACACC GTGTTTGCAATTGCAGTGCC 1932 ACGCCCACTGCAATTGCAACACC GTGTTTGCAATTGCAGGCC 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGCCCGCCTAC 1935 TGAGGCTTAGCCTACGCGCAGGT ACCTGCGCGTAGAGCTCATGAA 1936 CAGCGTTATGACCTACGCGCAGGT ACCTGCGCGTAGACCG 1937 GTCCACGTGACCACGGATAGTTGG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAAGACC 1939 TCGTCAAGGGCATGATGTTGG 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCA 1941 TACACGAGGATGATGTGGGA TCCACACATCATGCCTTCGC 1942 ACACGCCAAAAACGTTTGAAGGC 20 1943 GTTATCCTGGGCCAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCA 1944 ACATGACCGCTAAAACGTTTGAAGGC 1945 GAAGGCGGAAAACGTTTGA TCAAGGTGTCTTTGGCGGTCA 1946 TGACTTTTGCAACGGTGAACCA TGAGTACCATCAGGCCCACGAT 1947 TGAATTCGTGGGCCGTGTCCG CGAAGCAGGCGGATACGGTC 1946 TGACTTTTGCAACGGTTCAGCCTTCCACCCCTTCCACCACATCTGGCTCACAC 1947 TGAATTCGTAGGGTCAACCTTGA TCAGGACCAGCCCAAAACCTTTGACGCTTCACACCACTCACGAT 1947 TGAATTCGTAGGGTTTGGGTGCGC CCGAACCAGGCGGATACGGTC 1946 TGACTTTTGCAACGGGTGAACCA TGGTTCCACCCCGTTCAAAAC 1947 TGAATTCGTAGGGTTTTGGGTGCGC CCGAACCAGCCCAAAACCTACAAAC 1947 TGAATTCGTAGGGTTTTGGGTGCGC CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTTGC 1951 AGACGCTTAGAACAACCACTGAACCTTTCGC 1951 AGACGCTTAGAACAACCACTGAACCTTTCGAACAG 1952 CATTCGTAGAAACAACACACCAATGGA TCCACCGTTTCATAAAT 1951 AGACGCTTGGAGTGAACCAT TGCTCCACCCGTTTCATAAAT 1951 AGACGCTTGGAGTGAACCAT TGCTCACCCGTTTCATAAAT 1951 AGACGCTTGGAGTGAACCAT TGCTCCACCCGTTTCATAAAT 1951 AGACGCTTGGAGTGAACCATTGGG CCGCACCAAAACCTACGAACT 1951 AGACGCTTGGAACAACCACGGACATTCGG 1952 CATTCGTAGAAACATGCGC CGGACCAAACCTACGAACT 1953 CCAAAAGGTTCCAGAGCAACATTGCG CGGCCAATTCTACGAACT 1954 GAGAAGCCGGTTCCAGAGCACAT ATGTGCTGAACCATGCAACT 1955 TTGCGTTGCAAAAATATCTGGCCG CGGGCCAAATATCTTGCAACAGGAT 1956 GGGTTGCAAGATACTGGGCCGCGCGCGCGGGCCAATTCTACCAC	T	CTCAGAGCACAATCTGCCC	1924	
1927 GCGCAACGCTAAGGGACTATCAAG 1928 CGTCCGCTGGGATGAGTCTCCTGC 1929 ACAGGCCTCGTGATTGGTGTGGT 1930 CATTCTCCTTCCGGGACCACGCCT 1931 TCGGAGTTGACCAAGCCCT 1931 TCGGAGTTGACCAAGCCTCATGCGC 1932 ACGCGCCACGCACGCCT 1933 ACTCATCCTGCAACCC 1933 ACTCATCACGAGCCC 1934 ACGCTCACTCCAACCC 1935 ACCGCCACTGCAATTGCAAACAC 1936 ACTTCATGGAGCCGGCGTATTGTT 1937 ACCATACGCGGCCCTAC 1937 ACCATCACGAGCCC 1938 ACTTTAATGCGGGCCCGCCTAC 1938 GATTATGCCAAGCCGCGCTAC 1939 TCGACGTGACCACGGCGATTTAT 1938 GATTATGCCACGGGAGGTTTAT 1939 TCGCACGTGACCACGGATAGTTGG 1939 TCGTCAAGGCGGAGTTTAT 1940 GATGGACCACGGATAGTTGG 1941 TACACGAGGCAACCCTTGA 1942 ACACGCACAAAACGTTTGAAACCC 1944 CAACGGACAAAACGTTTGAAACGCCGCCCACCACACATCATGCCCTTGAT 1944 ACATGACCGCAAAACGTTTGAAACGCCGCCACCACACATCATGCCCTTGAT 1945 GAAGGCGAAAACGTTTGAAAGGC 1946 TGAATTCGTGGGCCGAAAACGTTTCAAACGGTTTCACACGCCCACCACACATCATGCCCTTGAT 1947 TGAATTCGTGGGCCGAAGACACTTCCGCCGCCCACCACACACCATCCTCTGAT 1948 ACACGCACAAAACGTTTGAAACGCCCCACACCACACCATCACGCCCACACACA	G	GCTAGGAAAGTCGGCATTC	1925	
1928 CGTCCGCTGGGATGAGTCTCCTGC GCAGGAGACTCATCCCAGCGC 1929 ACAGGCCTCGTGATTGGTGGGT ACCCACACCAATCACGAGGCC 1930 CATTCTCCTTCCGGGACCACGCCT AGGCGTGGTCCCGGAAGGAG 1931 TCGGAGTTGACCAAGCTCAGTGCG CGCACTGAGCTTGGTCAACTC 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGGCG 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGCCCGCCTAC GTAGGCGGGCCCCGCATTAAA 1935 TGAGGCTTTAGCCTACGCCGAGGT ACCTGCGCGTAGGCTAAACGC 1937 GTCCACGTGACCACGGATTATT ATAAACTCCGCGGCTCATAAACG 1937 GTCCACGTGACCACGGATTATT ATAAACTCCGCGCTCAACACG 1937 GTCCACGTGACCACGGATTATT ATAAACTCCGCGCTCAACACG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGACAACGC 1939 TCGTCAAGGGCATGATGTTGG CCAACTATCCGTGGTCACGTG 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTTTTGGCGGTCC 1941 TACACGAGGATAGTGTGGGA TCCACACACTATCCCTTGAT 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTTGCCG 1943 GTTATCGTGGGCCGATGACTTT AAAGCTTGACCCCATCCTCGT 1944 ACATGACCGTATCCGCCTGCTTCC CGAAGCAGGCGGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC CGCTAGTTCAGCCCACCAAT 1946 TGACTTTTGCAACGGTGGAACCA TCAGTCCACCACATCATCGCC 1947 TGAATTCGTAGGTTTTGGGTGCGC CCGCACCCAAAACCTACGAAT 1947 TGAATTCGTAGGTTTTGGGTGCGC CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGG CCGCACCCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGG CCGCACCCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGG CCGCACCCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGG CCGCACCCAAAACCTACGAAT 1951 AGACGCTTGGAGTACAAACTACGC CGCAACTGCACTTTC 1951 AGACGCTTGGAGTACAAACTACGC CAACAGTTTCTTTTCT	)	AAAGCCCCAAAATTCCGCC	1926	
1929 ACAGGCCTCGTGATTGGTGTGGGT ACCCACACCAATCACGAGGCC 1930 CATTCTCCTTCCGGGACCACGCCT AGGCGTGGTCCCGGAAGGAG 1931 TCGGAGTTGACCAAGCTCAGTGCG CGCACTGAGCTTGGTCAACTC 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGGCG 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATTAA 1934 ACGTTTAATGCGGGGCCCGCCTAC GTAGGCGGGCCCCCCATTAA 1935 TGAGGCTTTAGCCTACGCCAGGT ACCTGCGCGTAAGCG 1936 CAGCGTTATGAGCGCGAGGT ACCTGCGCGTAGGCTAAACGC 1937 GTCCACGTGACCACGGATTGTT ATAAACTCCGCGCTCAAACGC 1937 GTCCACGTGACCACGGATTGTT ATAAACTCCGCGCTCAACGC 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCCCCCTTGAA 1940 GATGGACCGCCAAAGACACCTTGA TCCACGACCATCATGCCCTTGAA 1941 TACACGAGGATGGTGTGGGA TCCCACACATCATGCCCTTGAA 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAAGGTGTTTTGTGCG 1944 ACATGACCGTATCCGCCTGCTTCC CGAAGCAGGCGAACAGCT 1945 GAAGGCGAACACTGAAACTACGC CGCAACCACACACGGCCACAA 1946 TGACTTTTGCAACGGCTGGACCTGC CGAAGCAGGCGGAACAGGC 1946 TGACTTTTGCAACGGCTGGAACCA TGGTTCCACCCGTTCCACACA 1947 TGAATTCGTAGGTTTTGGGTGCGC CCGAACCAAAACCTACGGC 1948 AGCATTTAGAAGCGCCCATTGCG CCGCACCCAAAACCTACGGAAG 1947 TGAATTCGTAGGTTTTGGGTGCGC CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACG 1948 AGCATTTATGAAGCGCCCATTGCG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCACACGCAGAG 1950 CGCAGCAAGAAACACGTACGAA TCCACTGGCCCCAACCCTTCTTGCTG 1951 AGACGCTTTGGAATGCCCCAATTGCG CCGCACCCAAAACCTACCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCACTTTTCACTCCAACGG 1953 CCAGAAGGATCGGAGCCATTTTCACGA TCCATTTTCATCCAACGGGTTTCAAAAGGAACACTGGAACCGGCTTTCAAAACTACGC CGGGCCACCCAAAACCTACCAACCTGAAACCTACGAAT 1951 AGACGCTTTGAAAACTCGCC CAACACTTGCAACACGCGAACCTTC 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGCAGAACCGGCTTTCAACAGCAACCTTCCAAACCTACGAACCTGCGAACCACTTCAAAACATTGCAACCGCAACCTTCCAAACACTACGAACCGGCTTTCAAAAACTACGCC CGGGCCACCAAAACCTACCAAACCTACGAACCACTTCAAAACCTACGAACCGGCTTTCAAAAACATGCAACCGGCTTCAAAACCTACGAACCGGCTTCAAAACCTACGAACCGGCTTCAAAACCTACGAACCGGCTTCAAAACCTACGAACCGGCTTCAAAACCTACGAACCGGCTTCAAAACCTACGCC GGGCCAAAAACCTACGAACATGCAACGGCAAAACCATGCAAACCGAACCGAATATCTACGCC CGGGCCAAAAACCTTCAAACCTACACATGCAAA	G	GCGCAACGCTAAGGGACTA	1927	
1930 CATTCTCCTTCCGGGACCACGCCT AGGCGTGGTCCCGGAAGGAG 1931 TCGGAGTTGACCAAGCTCAGTGCG CGCACTGAGCTTGGTCAACTC 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGGCG 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGGCCCGCCTAC GTAGGCGGGCCCCGCATTAAA 1935 TGAGGCTTTAGCCTACGCGCAGGT ACCTGCGCGGTAGGCTAAAGC 1936 CAGCGTTATGAGCGCGCAGGT ACCTGCGCGGTAGGCTAAAGC 1937 GTCCACGTGACCACGGATATTTA ATAAACTCCGCGCTCATAACG 1938 GATTATGCTCCTACGCCTCCTCC CGGAGCAGGCGTAGGACCATGAA 1939 TCGTCAAGGGCATGATTGTGG CCAACTATCCGTGGTCACCTG 1940 GATGGACCGCCAAAGACACCTTGA TCCACACATCATGCCCTTGAA 1941 TACACGAGGATGGGTCAAGCTTT AAAGCTTTTGACCCCCATCCTCGT 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCAGCCCCACATA 1944 ACATGACCGTATCCGCCTGCTTCC CGAAGCAGGCGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGCCCACACAT 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAC 1947 TGAATTCGTAGGGCCGAACCACTGAACTACGC CCGAAGCAGGCGGATACGGTC 1948 AGCATTTATGAACGCGCCATTGCG CCGCACCCAAAACCTACGAAT 1947 TGAATTCGTAGGGTTCGGCCGCCCCCCCCCAAAACCTACGAAT 1949 TGCTCCTCCGCTTTGGTACCGTGAG CCGCACCCCAAAACCTACGAAT 1949 TGCTCCTCCGCTTTGGTACCGTGAG CTCACCGGTTCCAACAC 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTCCGCTTCAAAAT 1949 TGCTCCTCCGCTTTGGTACCGTGAG CTCACCGGTACCAACCCGAGAG 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTCCTCTCAACGG 1951 AGACGCTTTGGAGTGAAACTCGGA TCCGAGTTTTCACTCCAACGG 1952 CATTCCTAGAATGCCCCAAATGGA TCCAATTTCACTCCAACGG 1953 CCAAGAAGAACACGCAACTGGA TCCAATTTCACTCCAACGG 1954 GAGAAGCCGGTTCTCAGAACCCGC CGGGCCCGAACCTTTCACAAC 1955 TTGCGTTGCAAGAATATCTGGCCC CGGGCCAGATATCTTGCAACG 1955 CCACCAAAGAATATCTGGCCC CGGGCCAGATATCTTGCAACATGCAACTGCAACCGCGTTCTCAACAGGAACCAGGAACCAGGAACACACGAACACGAACACGAACACGAACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGAACACACGA	С	CGTCCGCTGGGATGAGTCT	1928	5
1931 TCGGAGTTGACCAAGCTCAGTGCG CGCACTGAGCTTGGTCAACTC 1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGGCG 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGGCCCGCCTAC GTAGGCGGGCCCCGCATTAAA 1935 TGAGGCTTTAGCCTACGCGCAGGT ACCTGCGCGGTAGGCTAAAGC 1936 CAGCGTTATGAGCGCGGAGGT ACCTGCGCGGTAGGCTAAAGC 1937 GTCCACGTGACCACGGATATTTA ATAAACTCCGCGCTCATAACG 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1939 TCGTCAAGGGCATGATGTTGG CCAACTATCCGTGGTCACGTG 1940 GATGGACCGCCAAAGACACCTTGA TCCCACCACATCATGCCCTTGAA 1941 TACACGAGGATGGTGTGGGA TCCCACACATCATGCCCTTGAA 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCAGCCCACACAT 1944 ACATGACCGTATCCGCCTGCTTC CGAAGCAGGCGGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGCCCACGAT 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCGTTGCACAG 1947 TGAATTCGTAGGTTTGGGTGCG CCGCACCCAAAACCTACGAAT 1947 TGAATTCGTAGGTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTAG CCCACACACCCGACACACACACACACACACACACACA	T	ACAGGCCTCGTGATTGGTG	1929	
1932 ACGCGCCACTGCAATTGCAAACAC GTGTTTGCAATTGCAGTGGCG 1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGAA 1934 ACGTTTAATGCGGGGCCCGCCTAC GTAGGCGGGCCCCGCATTAAA 1935 TGAGGCTTTAGCCTACGCCAGGT ACCTGCGCGTAGGCTAAAGCC 1936 CAGCGTTATGAGCGCGGAGTTTAT ATAAACTCCGCGCTCATAACGC 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGACAT 1939 TCGTCAAGGGCATGATGTGGGA TCCCACACATCATGCCCTTGAA 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC 1941 TACACGAGGATTGGGGA TCCCACACATCATGCCCTTGAA 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGGCG 1943 GTTATCGTGGGCCCGATGGTACTGA 1944 ACATGACCGTTGCATCGC TCGCTTCG CGAAGCAGCGGATACGGTC 1945 GAAGGCGACCACTGAAACTACGC GCGTAGTTTCAGTGGCCCACGGT 1946 TGACTTTTGCAACGGTGGAACCA TGGTTCCACCCGTTGCAAAAC 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTAGAAGCGGCCATTGCG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCACTCCAAAAC 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACCCTACAAAC 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTTGCTC 1951 AGACGCTTGGAGTGAAACACCGGATG 1952 CATTCGTAGAATCCCCCAAATGGA TCCATTTTTTTCACTCCAAGCG 1953 CCAGAAGGTTCCGGACCCAAAACCTTCGAACTACGAA 1955 TTGCGTTGCAAGAATACTCGGA TCCATTTTTTTTGCACCGGTTGCAACAC 1955 TTGCGTTGCAAGAATATCTTGGCCCG CGGGCCAGAAACCTGCAACCTTC 1956 GGGTTGCAAGAATATCTTGGCCCG CGGGCCAGAAACCTGCAAC 1957 CTCACGAAGATATCTTGGCCCG CGGGCCAGAAAACCTGCAAC 1957 CTCACGAAGATATCTTGGCCCG GGGCCAGAATATCTTGCAACGA 1957 CTCACGAAGATATCTGGCCCG GGGCCAGAAACCTTCCGA 1958 GCCCGAGATACCGGGTTCCAAAAAGAAACCCGCTTCTCCTGAACATGCAACTTCCGC 1958 GGGTTGCATGTTCAGGCAAGAACAGAACCGCCGTTCTCCGAGCCCGAACCTTCCGAACATCCCGCGTTCCCAACCTTCCGTTGCAACAACCCGCCTTCCGAACATCCAACCCGCACCCTCCGAACCTTCCGCCCAACCTTCCGAACATCCAACCCGCAACCTTCCGCCCAACCTTCCGCCCAACCCGCGGCCCCAACCCTCCGAACCTTCCCAACCCGCGAACCCCGCCGAACCCCCCCAACCCCGCGCGCCCCAACCCTCCGAACCCCCAACCCCCCAACCCCCCAACCCCCCAACCCCCC	T	CATTCTCCTTCCGGGACCAC	1930	
1933 AGTTCATGGAGCCGGCGTATTGTT AACAATACGCCGGCTCCATGA 1934 ACGTTTAATGCGGGGCCCGCCTAC GTAGGCGGGCCCCGCATTAAA 1935 TGAGGCTTTAGCCTACGCGAGGT ACCTGCGCGATGAGCTAAAGCC 1936 CAGCGTTATGAGCGCGAGGT ACCTGCGCGCTAGGCTAAAGCC 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT, 1939 TCGTCAAGGGCATGATGTGGGA TCCCACACATCATGCCCTTGAA 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAAGACACCCATCCTCGT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGCGCGCACCACAT 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTCCACCGAT 1946 TGACTTTTGCAACGGTGGAACCA TGGTTCCACCCGTTGCAAAAC 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCACCGCAGGG 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTCTTGCTG 1951 AGACGCTTGGAGTGAAACACTACGGA TCCGAGTTTCACCCGCAGGGG 1952 CATTCGTAGAATACCCCCAAATGGA TCCATTTTTTCACTCCAAGCG 1953 CCAGAAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTTGCTG 1954 GAGAAGCCGGTTCAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1955 CATTCGTAGAATACCCCCAAATGGA TCCATTTTTTCACTCCAAGCG 1955 TTGCGTTGCAAGAATCCGCA TATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGAATATCTGGCCCG CGGGCCAGAAACCGGCTT 1956 GGGTTGCAAGAATATCTGGCCCG CGGGCCAGAAACCGGCAAC 1957 CTCACGAAGGTTCAAGAAAAAAAAAAAAAAAAAAAAAAA	G	TCGGAGTTGACCAAGCTCA	1931	
1934 ACGTTTAATGCGGGGCCCGCCTAC 1935 TGAGGCTTTAGCCTACGCGCAGGT ACCTGCGCGTAGGCTAAAGCC 1936 CAGCGTTATGAGCGCGGAGTTTAT ATAAACTCCGCGCTCATAACGC 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT 1939 TCGTCAAGGGCATGATGTGGGA TCCCACACATCATGCCCTTGAA 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT 1942 ACACGCACAAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGCGGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC CGCAAGCAGCGGATACGGTC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGG 1950 CGCAGCAAGAAACAGCAACTGTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTCGAACTTCGAACTTCGGCCCAAAACCTACGAACTTCCGAACTTCGAACTTCGAACTTCGAAACTACGAACTTCCGAAACCTACGAACCTTCCGAAACCTACGAATGCAACCTTCCGAAACCTACGAAACCTACGAACCTTCCGAAACCTACGAACCTTCCGAAACCTACGAACCTTCCGAAACCTACGAACCTTCCGAAAACCTACGAAACCTACGAAAACCTACGAACCTTCCGAACACCTTCCGAAACCTACGAAAACCAAACCTACGAACCTTCCGAAACCTACGAACCTTCCGAAACCTACGAAAACCAAACCTACGAACCTTCCGAAACCTACGAACCTTCCAAGAAAACCAAACCTACGAACCTTCCGAAACCTACGAACCTTCCGAAAACCAACC	C	ACGCGCCACTGCAATTGCA	1932	
1935 TGAGGCTTTAGCCTACGCGCAGGT ACCTGCGCGTAGGCTAAAGCC 1936 CAGCGTTATGAGCGCGGAGTTTAT ATAAACTCCGCGCTCATAACGC 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT 1939 TCGTCAAGGGCATGATGTGTGGGA TCCCACACATCATGCCCTTGAA 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT 1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGCGGGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG 1950 CGCAGCAAGAAACAGCAACTGTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 1953 CCAGAAGGTTCGGGACCACTGTG CACCACGGGTCCCAAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCTTC 1955 TTGCGTTGCAAGATATCTGGCCC CGGGCCAGAACCTTC 1956 GGGTTGCAAGATATCTGGCCC GGGGCCAGATATCTTGCAACG 1957 CTCACGAAGGTACAACGCA TCGTTTTTTTGCTCTCAACGAA 1957 CTCACGAAGGTACAAAAAGAAACGCAACGCC GGCGTATATGTCACCTTCGAACATGCAA 1957 CTCACGAAGGTACAAAAAAGAAAAAGAAACAACAACGAACAACGAACATACTTGCACCAACGCAACAACCTTCCAACCGCAAGAAAACAACAAAAACAACAAAACAAAC	T	AGTTCATGGAGCCGGCGTA	1933	10
1936 CAGCGTTATGAGCGCGGAGTTTAT ATAAACTCCGCGCTCATAACG 1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT. 1939 TCGTCAAGGGCATGATGTGTGGGA TCCCACACATCATGCCCTTGA. 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC. 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT. 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG. 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC. 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTCCCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG. 1950 CGCAGCAAGAAACACCACTGTTG CAACAGTTGCTGTTTCTTTCTCCTC 1951 AGACGCTTGGAGTGAAACTCGGA TCCGAGTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGCCATTTCACGAC 1953 CCAGAAGGTTCGGGACCCATTGCG CACCCAAACCTCCGAACCTTCCAAGCG 1954 GAGAAGCCGGTTCTCAGAGCACCAT ATGTGCTCTGAGAACCTGCAACCGCGAGCATTCCGAACCACGCGAGCATTCCGAACCACGCGAACCTTCCAACACCGCAACCCCGAACCCTTCCAACCCCGAACCCTTCCAACCCCCAACCCCCAAACCTTCCCAACCCCCAACCCCCAAACCTTCCCAACCCCCAACCCCCAACCCCCAACCCCCAACCCCCAACCCC	C	ACGTTTAATGCGGGGCCCG	1934	
1937 GTCCACGTGACCACGGATAGTTGG CCAACTATCCGTGGTCACGTG 1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT. 1939 TCGTCAAGGGCATGATGTTGTGGGA TCCCACACATCATGCCCTTGA. 1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTTGTTTTGGCGGTCC. 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT. 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG. 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT. 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC. 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTCAGTGGTTCGCC. 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAC. 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT. 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGCCGCTTCATAAAT. 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG. 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTTTTTTTT	T	TGAGGCTTTAGCCTACGCG	1935	
1938 GATTATGCTCCTACGCCTGCTCCG CGGAGCAGGCGTAGGAGCAT.  1939 TCGTCAAGGGCATGATGTGGGA TCCCACACATCATGCCCTTGA.  1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCC.  1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT.  1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG.  20 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT.  1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC.  1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCC.  1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG.  1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT.  25 1948 AGCATTTATGAAGCGGCCATTGCG CGCACCCAAAACCTACGAAT.  1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG.  1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC.  1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG.  1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA.  1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC.  1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTTC.  1955 TTGCGTTGCAAGATATCTGGCCC CGGGCCAGATATCTTGCAACCG.  1956 GGGTTGCATGTTCAGGCAAGACGA.  1957 CTCACGAAGGTACAGGCACGC GGCGTGATATTCTTCCACCACCG.  1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCCGTATCTCCGT.  1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTTGAACCCCGTATCTCCGT.	T	CAGCGTTATGAGCGCGGAG	1936	
1939 TCGTCAAGGGCATGATGTGTGGGA TCCCACACATCATGCCCTTGATGATGTGTGGATGTGTGGATGTGTGGATGTGTGGATGTGTGGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGTGATGTGATGTGTGATGTGTGATGTGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGA	G	GTCCACGTGACCACGGATA	1937	
1940 GATGGACCGCCAAAGACACCTTGA TCAAGGTGTCTTTGGCGGTCCC 1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG 20 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC, 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCG CCGCACCCAAAACCTACGAAT 1949 TGCTCCTCGCGTTGGTACCGTAG CTCACGGTACCAACGCGAGG, 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 20 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTTCACACG 1957 CTCACGAAGGTGAAAACAGCA 1957 CTCACGAAGGTGACAATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACCGGGTTCCAAAAAGA TCTTTTTTTGAACCCGTATCTCGCAACGTTCACGAACTTCCACGAAGAACAACAGCAAAAAAAA	3	GATTATGCTCCTACGCCTGC	1938	15
1941 TACACGAGGATGGGGTCAAGCTTT AAAGCTTGACCCCATCCTCGT 1942 ACACGCACAAAACGTTTGAAAGGC. GCCTTTCAAACGTTTTGTGCG 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC. 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 1958 GCCCGAGATACCGGGTTCCAAAAAAGA TCTTTTTTGAACCCGTATCTCGC	iΑ	TCGTCAAGGGCATGATGTG	1939	
1942 ACACGCACAAAACGTTTGAAAGGC GCCTTTCAAACGTTTTGTGCG  1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT  1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC  1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCC  1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG  1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT  1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT  1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG  1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC  1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG  1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA  1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC  1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT  1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG  1956 GGGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACGA  1957 CTCACGAAGGTGACAATATCACGCC GGCGTGATATGTCACCTTCGT  1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	A	GATGGACCGCCAAAGACAC	1940	
20 1943 GTTATCGTGGGCCGATGGTACTGA TCAGTACCATCGGCCCACGAT 1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTC 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTCAGTGGTTCGCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGG 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 30 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 1958 GCCCGAGATACCGGGTTCAAAAAAGA TCTTTTTGAACCCGTATCTCGC	T	TACACGAGGATGGGGTCAA	1941	
1944 ACATGACCGTATCCGCCTGCTTCG CGAAGCAGGCGGATACGGTCA 1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTCGCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACCGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	C.	ACACGCACAAAACGTTTGAA	1942	
1945 GAAGGCGAACCACTGAAACTACGC GCGTAGTTTCAGTGGTTCGCCC 1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 30 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	Α	GTTATCGTGGGCCGATGGT	1943	20
1946 TGACTTTTGCAACGGGTGGAACCA TGGTTCCACCCGTTGCAAAAG 1947 TGAATTCGTAGGTTTTGGGTGCG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGAA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACCGGGTTCAAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	ACATGACCGTATCCGCCTG	1944	
1947 TGAATTCGTAGGTTTTGGGTGCGG CCGCACCCAAAACCTACGAAT 1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACGGGTTCAAAAAAGA TCTTTTTGAACCCGTATCTCGC	C	GAAGGCGAACCACTGAAAC	1945	
1948 AGCATTTATGAAGCGGCCATTGCG CGCAATGGCCGCTTCATAAAT 1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTG 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGAA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTG 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACGGGTTCAAAAAAGA TCTTTTTGAACCCGTATCTCGC	Α	TGACTTTTGCAACGGGTGG	1946	
1949 TGCTCCTCGCGTTGGTACCGTGAG CTCACGGTACCAACGCGAGGA 1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTC 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT  35 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	TGAATTCGTAGGTTTTGGG	1947	
1950 CGCAGCAAGAAACAGCAACTGTTG CAACAGTTGCTGTTTCTTGCTG 1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA 30 1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTG 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 GCCCGAGATACGGGTTCAAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	AGCATTTATGAAGCGGCCA	1948	25
1951 AGACGCTTGGAGTGAAAACTCGGA TCCGAGTTTTCACTCCAAGCG 1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA  1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT  35 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	TGCTCCTCGCGTTGGTACC	1949	
1952 CATTCGTAGAATGCCCCAAATGGA TCCATTTGGGGCATTCTACGA  1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC  1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT  1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG  1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA  1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT  1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	CGCAGCAAGAAACAGCAAC	1950	
1953 CCAGAAGGTTCGGGACCCGTCGTG CACGACGGGTCCCGAACCTTC 1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAAC 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	A	AGACGCTTGGAGTGAAAAC	1951	
1954 GAGAAGCCGGTTCTCAGAGCACAT ATGTGCTCTGAGAACCGGCTT 1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	A	CATTCGTAGAATGCCCCAA	1952	
1955 TTGCGTTGCAAGATATCTGGCCCG CGGGCCAGATATCTTGCAACG 1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	ΓG	CCAGAAGGTTCGGGACCCC	1953	30
1956 GGGTTGCATGTTCAGGCAAGACGA TCGTCTTGCCTGAACATGCAA 1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	T	GAGAAGCCGGTTCTCAGAC	1954	
1957 CTCACGAAGGTGACATATCACGCC GGCGTGATATGTCACCTTCGT 35 1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	G	TTGCGTTGCAAGATATCTG	1955	
35 1958 GCCCGAGATACGGGTTCAAAAAGA TCTTTTTGAACCCGTATCTCGC	A.	GGGTTGCATGTTCAGGCAA	1956	
	С	CTCACGAAGGTGACATATC.	1957	
1959 CATCTTCGCGCTTCTTCACTCCGC GCGGAGTGAAGAAGCGCGAA	A	GCCGAGATACGGGTTCAA	1958	35
	<u> </u>	CATCTTCGCGCTTCTTCACT	1959	
1960 TTACACGGTAAGCGTACGCCCC GGCGGCCGTACGCTTACCGT	C	TTACACGGTAAGCGTACGG	1960	
1961 ACCTTCGGACAATGTGGCGTTCGC GCGAACGCCACATTGTCCGAA	C	ACCTTCGGACAATGTGGCG	1961	
1962 TGAATGGTTCTGCTAGGCCCACAC GTGTGGGCCTAGCAGAACCAT	С	TGAATGGTTCTGCTAGGCC	1962	
40 1963 CACGCCTGTCTGACATATGGATGC GCATCCATATGTCAGACAGGC	С	CACGCCTGTCTGACATATG	1963	40
1964 CGCCTCAACCCAATCTGAGAACGT ACGTTCTCAGATTGGGTTGAG	T	CGCCTCAACCCAATCTGAG	1964	

ļ	1965	TTACGCTTACTGCGAGCTGGGTCC	GGACCCAGCTCGCAGTAAGCGTAA
	1966	GGCTTGTGGGGCAATACGCATCTT	AAGATGCGTATTGCCCCACAAGCC
[	1967	CACTCTCCTTTGGATGCGGAACAA	TTGTTCCGCATCCAAAGGAGAGTG
Γ	1968	GACCAGCCATCACGTAACGGCCCT	AGGGCCGTTACGTGATGGCTGGTC
5	1969	AGGAACCGGATGTGGTTATGGAGC	GCTCCATAACCACATCCGGTTCCT
	1970	ATCCATGGGCAACTGAGCCTATGC	GCATAGGCTCAGTTGCCCATGGAT
Γ	1971	GGAACAGCACTTGTTACCGCCCAC	GTGGGCGGTAACAAGTGCTGTTCC
	1972	TGGCTCGCTTCAAGCCTGTTTGCT	AGCAAACAGGCTTGAAGCGAGCCA
	1973	CAAACGTGAGGTCATGACCACCAT	ATGGTGGTCATGACCTCACGTTTG
10	1974	ACCGATGTCTTGAAGTCCGGAGGT	ACCTCCGGACTTCAAGACATCGGT
	1975	CGAAAATGCATGATGATCTCCCCT	AGGGGAGATCATCATGCATTTTCG
	1976	TTTGGTATTCTCGCTGCACCGTTG	CAACGGTGCAGCGAGAATACCAAA
	1977	GCGTACTCAACCACATTCCCGACC	GGTCGGGAATGTGGTTGAGTACGC
	1978	AGCAAACAACAGCGGTCCGAGCAT	ATGCTCGGACCGCTGTTGTTTGCT
15	1979	GGACTAGGAGCGGGGATAGCTGAG	CTCAGCTATCCCCGCTCCTAGTCC
	1980	CCTTAACGAAAACCTGTCGACCGC	GCGGTCGACAGGTTTTCGTTAAGG
Γ	1981	CTCGATCGCATAAGCAAGAAACCG	CGGTTTCTTGCTTATGCGATCGAG
	1982	CCCGTTGTTTGGGCGACAAAAGT	ACTITITGTCGCCCAAACAACGGG
	1983	CGGCGGCTCTCGCATGATCTCGTT	AACGAGATCATGCGAGAGCCGCCG
20	1984	CGGATGGAGAGGAGTCTACGTCCC	GGGACGTAGACTCCTCTCCATCCG
	1985	CAGAACAATATCGTGCGTCAACCG	CGGTTGACGCACGATATTGTTCTG
	1986	CCTTTGCGCGCTCCGAGTAAGGTA	TACCTTACTCGGAGCGCGCAAAGG
	1987	GGAAACGGCACCTATCTGTCGTGA	TCACGACAGATAGGTGCCGTTTCC
	1988	CGACCGACAAAACCAAATGCCGCC	GGCGGCATTTGGTTTTGTCGGTCG
25	1989	CCAAGGGTGTGGGAGCTGAAGAGA	TCTCTTCAGCTCCCACACCCTTGG
	1990	TTAAGTGCGCATAGTCCTCGTGGG	CCCACGAGGACTATGCGCACTTAA
	1991	GCCTGGTGGGGTAAGTCATGATGC	GCATCATGACTTACCCCACCAGGC
	1992	GAGCAGCAGATTGATGCGCTTATG	CATAAGCGCATCAATCTGCTGCTC
	1993	TGCGCCAACTTCCGGAATATTTGC	GCAAATATTCCGGAAGTTGGCGCA
30	1994	AACCCCATCATGAAATGCTCTCCG	CGGAGAGCATTTCATGATGGGGTT
	1995	GTCCAACGGTACTGGCGTGATGTT	AACATCACGCCAGTACCGTTGGAC
	1996	ACTCGGCTGATCGTGAGATGGTGA	TCACCATCTCACGATCAGCCGAGT
_	1997	ATTCGTGGGCGCATCTCGGAATGT	ACATTCCGAGATGCGCCCACGAAT
	1998	TCCCGTCCTGTAATCCAGGGAACA	TGTTCCCTGGATTACAGGACGGGA
35	1999	CTTCGCTGCACCTACATTGCGCCA	TGGCGCAATGTAGGTGCAGCGAAG
. [	2000	GCGTGTAGATGACTGTGCTTTGGG	CCCAAAGCACAGTCATCTACACGC
	2001	CTATGGTATCGAGACATCGGCGGA	TCCGCCGATGTCTCGATACCATAG
	2002	CCTCGTACTCCGTCGTATGCACAA	TTGTGCATACGACGGAGTACGAGG
	2003	TGGTGCGTCCGTAGTGCCTGCACT	AGTGCAGGCACTACGGACGCACCA
40	2004	CGCGATCCTAGTTGAAAGCTTTGC	GCAAAGCTTTCAACTAGGATCGCG
Γ	2005	ACGATCCAGGTGTTGGGCACTAAG	CTTAGTGCCCAACACCTGGATCGT

		T	
	2006	CCAATCTAGGATACACCACGCCCG	CGGGCGTGGTGTATCCTAGATTGG
	2007	GATACGTGGGGTATAGGCGGGCCC	GGGCCGCCTATACCCCACGTATC
	2008	CATGGAACAAACCGTCGTAGGGGA	TCCCCTACGACGGTTTGTTCCATG
	2009	ACACTCGCGCAGTATTCGAGTCGT	ACGACTCGAATACTGCGCGAGTGT
5	2010	CTCAGTCTCGAAGGTGATCCGACC	GGTCGGATCACCTTCGAGACTGAG
	2011	TCCCAATCCCCGTGGTATCGTCGT	ACGACGATACCACGGGGATTGGGA
	2012	AATCAACGTAGTTCCGGTGGTCCG	CGGACCACCGGAACTACGTTGATT
	2013	CTTAACAACCCAGGGGTTTGGGCT	AGCCCAAACCCCTGGGTTGTTAAG
	2014	CTACCGCTGCATGGCGTTAGATTG	CAATCTAACGCCATGCAGCGGTAG
10	2015	TTATTGGTGGCGGACGGAGTGAGT	ACTCACTCCGTCCGCCACCAATAA
	2016	TTAAGGGTGAACTCAACCGCGTGA	TCACGCGGTTGAGTTCACCCTTAA
	2017	TTTGATTGAAACGCTGCGCACTAC	GTAGTGCGCAGCGTTTCAATCAAA
	2018	TCATGTGTAGGTCGCGGCCGTCAC	GTGACGGCCGCGACCTACACATGA
	2019	CTCCGAACCTTCTGGGCCTCTTTT	AAAAGAGGCCCAGAAGGTTCGGAG
15	2020	CTGTTGCCCATTGGCCCGACACTC	GAGTGTCGGGCCAATGGGCAACAG
	2021	CACGATCGCTGAGCAACACATCAC	GTGATGTTGCTCAGCGATCGTG
	2022	CGGATCATAAGCGTCCGCCTTCGT	ACGAAGGCGGACGCTTATGATCCG
	2023	AGGTTAACGCAACATGTGATCCGC	GCGGATCACATGTTGCGTTAACCT
	2024	GGGAAAAACAGCTAAGCCTTGCGA	TCGCAAGGCTTAGCTGTTTTTCCC
20	2025	ACTTATTGCCGGGATCCGTACACA	TGTGTACGGATCCCGGCAATAAGT
	2026	TGCGGTCTGGAAAGGAAGGGAGGG	CCCTCCCTTCCTTTCCAGACCGCA
	2027	GCTGCCACCTGGACATCGCATACA	TGTATGCGATGTCCAGGTGGCAGC
	2028	GCAGGCATGACAGTGGCGTAGTAC	GTACTACGCCACTGTCATGCCTGC
	2029	GCGGCCCTGATGGTTTGGCTGAGC	GCTCAGCCAAACCATCAGGGCCGC
25	2030	TCCCCATTTAGTCCCCTCCATCAC	GTGATGGAGGGGACTAAATGGGGA
	2031	GCAACACAAATGCGAGCGTAGGAG	CTCCTACGCTCGCATTTGTGTTGC
	2032	GGCGTTTGTATTCGAGCCACGTAG	CTACGTGGCTCGAATACAAACGCC
	2033	GGTAACGTCGCACGTGGAATTCCG	CGGAATTCCACGTGCGACGTTACC
	2034	ACTTCACAACGCTCCGTTGGACAC	GTGTCCAACGGAGCGTTGTGAAGT
30	2035	CCGAATTATAAAGCGCAAGGCACA	TGTGCCTTGCGCTTTATAATTCGG
	2036	GGACCCGATAAGACTCTGACGCCG	CGGCGTCAGAGTCTTATCGGGTCC
	2037	ACCCGTTTCTCGTAGGAACCTGCT	AGCAGGTTCCTACGAGAAACGGGT
	2038	CACGTTCGACTGTATCTGGTTGCC	GGCAACCAGATACAGTCGAACGTG
	2039	CCTCGGATGGCCCATGACCTTGA	TCAAGGTCATGGGCCCATCCGAGG
35	2040	GGACGCCTGCTGTAGGGGTTTGAT	ATCAAACCCCTACAGCAGGCGTCC
	2041	CTCGAGCGTGGGCTAAAAGAGCAT	ATGCTCTTTTAGCCCACGCTCGAG
	2042	TITACTTCTTAGGGCGCGTTTGGG	CCCAAACGCGCCCTAAGAAGTAAA
	2043	ACCACCAACATAGCGCGCACTAGT	ACTAGTGCGCGCTATGTTGGTGGT
	2044	TGGTTACACGGCAGCCCGCGTAAG	CTTACGCGGGCTGCCGTGTAACCA
40	2045	TTATGGTACGTTGCTGCGGG	CCCGCACGCAGCAACGTACCATAA
	2046	ACCGCGGATCTAACGAATCCCATT	AATGGGATTCGTTAGATCCGCGGT

	2047	CATGATCCCGCCCTTAGGTTAAGC	GCTTAACCTAAGGGCGGGATCATG
	2048	TACCGCTTCAAAGGGTTGCCGAAT	ATTCGGCAACCCTTTGAAGCGGTA
	2049	GCACCGCGTCAATATTACCGAGGA	TCCTCGGTAATATTGACGCGGTGC
	2050	GTGTCGCGGCTTTACAGAAGGAGA	TCTCCTTCTGTAAAGCCGCGACAC
5	2051	GCAAGCCATACCGCAATAAACTCG	CGAGTTTATTGCGGTATGGCTTGC
	2052	ATGAGGTCGTGCTGCGTTCACGAG	CTCGTGAACGCAGCACGACCTCAT
	2053	CGAGACTAGTGCCGATGCAGGGTA	TACCCTGCATCGGCACTAGTCTCG
!	2054	GCCTCATCATAGACGCTGGATGCA	TGCATCCAGCGTCTATGATGAGGC
	2055	GACAGGCGTCGGTAAGCTCTCAAG	CTTGAGAGCTTACCGACGCCTGTC
10	2056	GCTACGAATCTTCCCTGTCGCCAC	GTGGCGACAGGGAAGATTCGTAGC
,,	2057	TTTGGCAGAACGTACCAGTGGGGT	ACCCCACTGGTACGTTCTGCCAAA
	2058	GGACAATAAGCACCGGAGAATGCG	CGCATTCTCCGGTGCTTATTGTCC
	2059	TCATGAACCTTCTGATGCCGCGAA	TTCGCGGCATCAGAAGGTTCATGA
	2060	CGCCGCATTACCTTAAAAACGTGC	GCACGTTTTTAAGGTAATGCGGCG
15	2061	ACGAGTCCAACCGCCTCATTGATT	AATCAATGAGGCGGTTGGACTCGT
	2062	GCGAAGAGTTGCTACTCTTCCGCC	GGCGGAAGAGTAGCAACTCTTCGC
	2063	CGTCGGCAACAATCTTTTTCGTGA	TCACGAAAAAGATTGTTGCCGACG
	2064	AATCCTGTGCACCCGTGAGACGCG	CGCGTCTCACGGGTGCACAGGATT
	2065	AACCTATATGCATCAACGCGAGCC	GGCTCGCGTTGATGCATATAGGTT
20	2066	GAACTTGGCAAAACAGCCCGGAAA	TTTCCGGGCTGTTTTGCCAAGTTC
	2067	CTCTATGGCCGTTTGCCGTCTGCA	TGCAGACGGCAAACGGCCATAGAG
	2068	AGTGCACCGGGTTGTGGACACAAT	ATTGTGTCCACAACCCGGTGCACT
	2069	CCTGGCTTTTCACACGCCAAGAAA	TTTCTTGGCGTGTGAAAAGCCAGG
	2070	CACTCAGCGTAGCCTGAAGCCTGG	CCAGGCTTCAGGCTACGCTGAGTG
25	2071	GAATTATCGACCGCAGCGGTGTCG	CGACACCGCTGCGGTCGATAATTC
	2072	GTGACATCACATGGTGGCCGAGCG	CGCTCGGCCACCATGTGATGTCAC
	2073	AGCACCTTGCCGAGTCACCAGTGA	TCACTGGTGACTCGGCAAGGTGCT
	2074	TAGGTTGCAGGAATGGTGGGCACC	GGTGCCCACCATTCCTGCAACCTA
	2075	GTCCCATACGTGTGGTACGCGGAT	ATCCGCGTACCACACGTATGGGAC
30	2076	TCGGATACTCTCGCGTGCCACGGG	CCCGTGGCACGCGAGAGTATCCGA
	2077	CAACGTTCGCCCCTAAGCCCAAAT	ATTTGGGCTTAGGGGCGAACGTTG
	2078	GTTAGGTCACCGCGGCATATCCTA	TAGGATATGCCGCGGTGACCTAAC
	2079	GTTCACCGGCCTCTACTTGGGTTT	AAACCCAAGTAGAGGCCGGTGAAC
	2080	AATCCGCGTCTAGGTCATGTGGTC	GACCACATGACCTAGACGCGGATT
35	2081	GCTACGCCTCTGGAGGTGGTACCC	GGGTACCACCTCCAGAGGCGTAGC
	2082	CAGGGAATGCTACAAAGGGTCCAA	TTGGACCCTTTGTAGCATTCCCTG
	2083	AAGGGTTAGCTGCCCGGTTAACAG	CTGTTAACCGGGCAGCTAACCCTT
	2084	CCTCGCAAGCGCGATATTTATGCC	GGCATAAATATCGCGCTTGCGAGG
	2085	GCCTCCCGGTCATGGTCAAGGGAA	TTCCCTTGACCATGACCGGGAGGC
40	2086	GCTGTTGAGCGGCGACCTGTGCAC	GTGCACAGGTCGCCGCTCAACAGC
	2087	CGCTGACTTAGCTCTGATGTGCCG	CGGCACATCAGAGCTAAGTCAGCG

	2088	TTCATGGCATTCATCACGAAGGAA	TTCCTTCGTGATGAATGCCATGAA
	2089	TAGTGTTATGCCCGCGTGTGAATG	CATTCACACGCGGGCATAACACTA
	2090	CATGTAAGGGCACGGTCGTGGGCA	TGCCCACGACCGTGCCCTTACATG
	2091	CAGGAAGCTCGCTCCGTGATGCAC	GTGCATCACGGAGCGAGCTTCCTG
5	2092	CCTGCTGATAGCAACCTCACTGCA	TGCAGTGAGGTTGCTATCAGCAGG
	2093	ACTACGAGGGCAGGGTCTAGGCG	CGCCTAGACCCTGCCCCTCGTAGT
	2094	CATAATGTGGGTGCTGACGCCGAT	ATCGGCGTCAGCACCCACATTATG
	2095	TAGCGAATCCACACAGAGCCGCTC	GAGCGGCTCTGTGTGGATTCGCTA
	2096	TCGCGAAATCCCTAAATCCTGTGC	GCACAGGATTTAGGGATTTCGCGA
10	2097	TGGCACGAATCAAGCCACCAACTC	GAGTTGGTGGCTTGATTCGTGCCA
	2098	GCGGACCGTCTTTGCTATCTGACG	CGTCAGATAGCAAAGACGGTCCGC
	2099	AGGCCCGCCTTGTAATTGGTCAT	ATGACCAATTACAAGGCGGGGCCT
	2100	CTGGTCCCATACGCCGCTGACTAG	CTAGTCAGCGGCGTATGGGACCAG
	2101	TGCTAACTGCGGCCCTACAGAGTC	GACTCTGTAGGGCCGCAGTTAGCA
15	2102	TGGTTTATGTTCGGTAGCGTCCG	CGGACGCTACCGAACATAAAACCA
	2103	AGCTCAAACTTCTCCCACGGGATG	CATCCCGTGGGAGAAGTTTGAGCT
	2104	CGCGAAGATAGTGAAATCCGCATC	GATGCGGATTTCACTATCTTCGCG
	2105	GAGTGAAACCTCTCGCGGGTTGCA	TGCAACCGGGAGAGGTTTCACTC
	2106	TCGAATGCTCTGCAGTGACGTCAA	TTGACGTCACTGCAGAGCATTCGA
20	2107	AGGTGGCAATGATCGACGACCCTG	CAGGGTCGTCGATCATTGCCACCT
	2108	GTCCGGAGCCGTGCAAAGCAATAA	TTATTGCTTTGCACGGCTCCGGAC
	2109	CTTTTGGGGATTAGAGGCCGACAA	TTGTCGGCCTCTAATCCCCAAAAG
	2110	GGCATAAAGGCTTCCGTTCCTGTC	GACAGGAACGGAAGCCTTTATGCC
	2111	GCGGACCGTAAAGCGGGCAGATAG	CTATCTGCCCGCTTTACGGTCCGC
25	2112	TTTCAAGAGTGCATCGAATCCACG	CGTGGATTCGATGCACTCTTGAAA
	2113	CCGGCATCCCTTCTCGCTGTTGCC	GGCAACAGCGAGAAGGGATGCCGG
	2114	ACACAGAGACGCGAACGGAGTGCA	TGCACTCCGTTCGCGTCTCTGTGT
	2115	AGCGGCATTCTCCCACTCGTTACT	AGTAACGAGTGGGAGAATGCCGCT
	2116	GGAGCGTACTGCGCCTCGCAAGTC	GACTTGCGAGGCGCAGTACGCTCC
30	2117	AAACCCGAATGACACGGCAGATAA	TTATCTGCCGTGTCATTCGGGTTT
	2118	AACCAGCGGATCGATAAAACGACA	TGTCGTTTTATCGATCCGCTGGTT
	2119	GGTGTCCACCCGTTAACGCCGGTA	TACCGGCGTTAACGGGTGGACACC
	2120	AGCGCGACGTGGCTTGCCGTTAAA	TTTAACGGCAAGCCACGTCGCGCT
	2121	TCCCACGGCTATAGGTCCAACGAC	GTCGTTGGACCTATAGCCGTGGGA
35	2122	ATCAACGAACGATGCCGTTAGGTG	CACCTAACGGCATCGTTCGTTGAT
	2123	GAGGCTAAGCCGTATGGCCGAGGC	GCCTCGGCCATACGGCTTAGCCTC
	2124	ACGGTCCGAAATGGTTAGAGGCAC	GTGCCTCTAACCATTTCGGACCGT
	2125	ACGCAAACCATTCCTCGAGTAGGC	GCCTACTCGAGGAATGGTTTGCGT
	2126	TTACACGCTCGCTATTGGGCCATA	TATGGCCCAATAGCGAGCGTGTAA
40	2127	CTCGGCACGGGTTTAGAACGCCGG	CCGGCGTTCTAAACCCGTGCCGAG
	2128	ATTCGGTAAGGTATCGGGCTAGCG	CGCTAGCCCGATACCTTACCGAAT

	2129	AGCACACCGTTATACATGACGGCG	CGCCGTCATGTATAACGGTGTGCT
	2130	AGTCCCTGCCGTTCGCTCATGGAA	TTCCATGAGCGAACGGCAGGGACT
	2131	GGGCTTATGACCAGTCAGGTTGGA	TCCAACCTGACTGGTCATAAGCCC
	2132	GGTCACCACACGAGTGCCTGGTCT	AGACCAGGCACTCGTGTGGTGACC
5	2133	TTGATCGTGTCTCCCGAAACCCTC	GAGGGTTTCGGGAGACACGATCAA
	2134	ATTGTCGCGATCGGCATTTCTTAA	TTAAGAAATGCCGATCGCGACAAT
	2135	GGGTCCAACGACTTCTCGCTGCTG	CAGCAGCGAGAAGTCGTTGGACCC
	2136	CAAATTCCTTGGGGGCCATAGTGG	CCACTATGGCCCCCAAGGAATTTG
	2137	CCAGAGTATCCGCCGTTAGACGGT	ACCGTCTAACGGCGGATACTCTGG
10	2138	TCCTGCAGATCATCTCGTGTCTGG	CCAGACACGAGATGATCTGCAGGA
	2139	TGCGGGAGATTTGAACAAGCTGTA	TACAGCTTGTTCAAATCTCCCGCA
	2140	TTAGACGCCGAGCTAGGCAACGTC	GACGTTGCCTAGCTCGGCGTCTAA
	2141	TTTCGGCAGAATCTCCGATTCAAC	GTTGAATCGGAGATTCTGCCGAAA
	2142	TGGCGAGCAGACCTACAAGACAGA	TCTGTCTTGTAGGTCTGCTCGCCA
15	2143	GGCGACAGACCGGTACATCGGCCA	TGGCCGATGTACCGGTCTGTCGCC
	2144	TCTAGACCTGCGTTTCGTGGGACC	GGTCCCACGAAACGCAGGTCTAGA
	2145	GCCGAGCGTGGTACCATACGTTCA	TGAACGTATGGTACCACGCTCGGC
	2146	TAATCACACCCGCTTTCTGTGGCT	AGCCACAGAAAGCGGGTGTGATTA
	2147	GGCCGGAGCCATTGGACACTTCTT	AAGAAGTGTCCAATGGCTCCGGCC
20	2148	CCTGTAGACCTGCATGGATCGCTG	CAGCGATCCATGCAGGTCTACAGG
	2149	ATCGCCGTTCCCGCAAAATAAGCA	TGCTTATTTTGCGGGAACGGCGAT
	2150	TGGATCAACGGGGTAGTGAAAACG	CGTTTTCACTACCCCGTTGATCCA
	2151	AAGCGACGATGCTTTCTTGAGCTG	CAGCTCAAGAAAGCATCGTCGCTT
	2152	CACGGGCACGTGTTCTACGCTTGC	GCAAGCGTAGAACACGTGCCCGTG
25	2153	ACGGGCTGGGACAAGAGCTAGAAA	TTTCTAGCTCTTGTCCCAGCCCGT
	2154	GGTAACTGGCTCCGCTCTCACATC	GATGTGAGAGCGGAGCCAGTTACC
	2155	ACTCTGGCTGTTGGCGAACGTGAC	GTCACGTTCGCCAACAGCCAGAGT
	2156	GACCGAGGACCAGTCCTTGCTCTC	GAGAGCAAGGACTGGTCCTCGGTC
	2157	AGTAGCTCTTGCGGCCTAACGGCA	TGCCGTTAGGCCGCAAGAGCTACT
30	2158	TTCTTGTCCTGGGGGAGAGCAGTG	CACTGCTCTCCCCCAGGACAAGAA
	2159	TTAGCAGGGAGGTTGTCGGCTCAT	ATGAGCCGACAACCTCCCTGCTAA
	2160	AGAACGTGGATTGTACGCTCCGCC	GGCGGAGCGTACAATCCACGTTCT
	2161	CTTCACAGCCTGGAGCCACCAATG	CATTGGTGGCTCCAGGCTGTGAAG
	2162	GAGATCGATGAAACGCACCAGCGG	CCGCTGGTGCGTTTCATCGATCTC
35	2163	GGGTCCAGAGTTGGTGTGGGATAA	TTATCCCACACCAACTCTGGACCC
	2164	CCGTCCACCCCAGATAGGAATCAC	GTGATTCCTATCTGGGGTGGACGG
••	2165	TGCCTCGCTTCTGTGAATCTACGA	TCGTAGATTCACAGAAGCGAGGCA
	2166	GATCACAGCGTCCGCGCATAACGG	CCGTTATGCGCGGACGCTGTGATC
	2167	ATGACGCCTTACATGACGCACCTT	AAGGTGCGTCATGTAAGGCGTCAT
40	2168	GCGTGGAATAACGCCCTTAGTTCA	TGAACTAAGGGCGTTATTCCACGC
	2169	GGTCTACCATTTCTCGCCCGACCG	CGGTCGGGCGAGAAATGGTAGACC

	2170	ACACCTCTCTGGCGTAGACGCTCA	TGAGCGTCTACGCCAGAGAGGTGT
	2171	GTAGAGGTGCTCAGGACTCGTCGC	GCGACGAGTCGTGAGCACCTCTAC
	2172	GTAAGCAGGAGGCGAAGGCGCGAA	TTCGCGCCTTCGCCTCCTGCTTAC
	2173	TCTAAGGGCCGTTTCAATCGACCT	AGGTCGATTGAAACGGCCCTTAGA
5	2174	AACCTGATTTCAGGGTCAGCCCGA	TCGGGCTGACCCTGAAATCAGGTT
	2175	GTCACGCGATTGGCCCACCTATTA	TAATAGGTGGGCCAATCGCGTGAC
	2176	ACGATGCCGCGCATGTAACCTAGT	ACTAGGTTACATGCGCGGCATCGT
	2177	TGAGAGATGTCTCGTCAACGCCTG	CAGGCGTTGACGAGACATCTCTCA
	2178	GCATATCTCGCGGTGACAGACGAA	TTCGTCTGTCACCGCGAGATATGC
10	2179	GACCCAACGTCGAAATTGTGCGAT	ATCGCACAATTTCGACGTTGGGTC
	2180	TGAAAATCGGGGCATCTAGTTTGG	CCAAACTAGATGCCCCGATTTTCA
	2181	CCGCGAAAAGGATTTGTGTACGCA	TGCGTACACAAATCCTTTTCGCGG
	2182	CATTCCATTTATCCGCAGTTCGCT	AGCGAACTGCGGATAAATGGAATG
	2183	CCTGTCTGTCGAGCCAGCGTCTAT	ATAGACGCTGGCTCGACAGACAGG
15	2184	TCAGCGCGGCTAAACAAGTTATGC	GCATAACTTGTTTAGCCGCGCTGA
	2185	ACGCCTACGAACGACCCAAGAGAG	CTCTCTTGGGTCGTTCGTAGGCGT
	2186	TGCGCATCTACCATTGTGTGGATC	GATCCACACAATGGTAGATGCGCA
	2187	AAGTCCGCGCTCGCTCCTGTAATA	TATTACAGGAGCGAGCGCGGACTT
	2188	GCTGGGTCATTGCTCGAGTAACCA	TGGTTACTCGAGCAATGACCCAGC
20	2189	TGGAGCGTTCTGGCAATGACCGAC	GTCGGTCATTGCCAGAACGCTCCA
	2190	CAAGTCAATTCTTGGCCAATTCGG	CCGAATTGGCCAAGAATTGACTTG
	2191	CGTTCATGCAAGGATCCCAGGTTA	TAACCTGGGATCCTTGCATGAACG
	2192	ATGCCAATAGAAGCTGGGGATGCT	AGCATCCCCAGCTTCTATTGGCAT
	2193	CCTAACTCTCCCTTGAGGCCGTTC	GAACGCCTCAAGGGAGAGTTAGG
25	2194	ATCTCGGCGAAGGTTCCAAACATT	AATGTTTGGAACCTTCGCCGAGAT
	2195	GCGACAGATTACGCTGCGGTTTTC	GAAAACCGCAGCGTAATCTGTCGC
	2196	AAGCCCAGACGCCAACACGTTAC	GTAACGTGTTGGCCGTCTGGGCTT
	2197	TCAAGTTCAAATCACATCCCGTGG	CCACGGGATGTGATTTGAACTTGA
	2198	GATTGTCGTTCTGTCAGGCG	CGCCTCACAGACAGAACGACAATC
30	2199	ACCGAACTATGTTCCGGCATGGCA	TGCCATGCCGGAACATAGTTCGGT
	2200	CGTCATCGGGTGTGCAATGCCGTT	AACGCATTGCACACCCGATGACG
	2201	CGGACGGAGTCACGTTTGTGCACT	AGTGCACAAACGTGACTCCGTCCG
	2202	TAAACAAGTCGTGTGCCTTTGCCG	CGGCAAAGGCACACGACTTGTTTA
	2203	TAATTACTGGCCTGTGGAGCAGGC	GCCTGCTCCACAGGCCAGTAATTA
35	2204	GGAGCGGCCCGAATGGTGCTCTTA	TAAGAGCACCATTCGGGCCGCTCC
	2205	ACTAAGCAAGGCTTGGATGTGCGT	ACGCACATCCAAGCCTTGCTTAGT
	2206	GGCAGCTCAGCGGCAGTACGCTAC	GTAGCGTACTGCCGCTGAGCTGCC
	2207	GCGAGGCGAATTATCCGCGGATTT	AAATCCGCGGATAATTCGCCTCGC
	2208	CATACGACACCTTGGGGTGCTA	TAGCACCCAAGGTGTGTCGTATG
40	2209	TGCTTGGGCTTTAAACCCCGTTTT	AAAACGGGGTTTAAAGCCCAAGCA
	2210	CCGGTTGGAAAACGCAAATATCGG	CCGATATTTGCGTTTTCCAACCGG

	2211	AAACTAGCTAGCCGCACCCGCAAG	CTTGCGGGTGCGGCTAGCTAGTTT
	2212	GTTGTTCCACCAGTGATCACGCAG	CTGCGTGATCACTGGTGGAACAAC
	2213	GCCGCTGACAAGATGATCATCGTT	AACGATGATCATCTTGTCAGCGGC
	2214	CTTTCATAAAGCCAACCGATGCCC	GGGCATCGGTTGGCTTTATGAAAG
5	2215	CTGACTGCATCTCGAAAGCGGGTG	CACCCGCTTTCGAGATGCAGTCAG
	2216	ATTTCTTCGGAGAATCGGCCACGT	ACGTGGCCGATTCTCCGAAGAAAT
	2217	CATTTCGGGCCCTAGCTACTGCGC	GCGCAGTAGCTAGGGCCCGAAATG
	2218	CCGATCCCGCACATCCGTATCCTG	CAGGATACGGATGTGCGGGATCGG
	2219	TATCACCGGGAGCGTCTTATCGTG	CACGATAAGACGCTCCCGGTGATA
10	2220	TAGGGCTCGTGCACCGATTAGAGG	CCTCTAATCGGTGCACGAGCCCTA
	2221	GCGTGGCACTCGCTTGTCTAGGTA	TACCTAGACAAGCGAGTGCCACGC
	2222	CTCAACGAACTCAAGGGCCGCTAC	GTAGCGGCCCTTGAGTTCGTTGAG
	2223	AGCCTGGTATCGACCAATCCTGCA	TGCAGGATTGGTCGATACCAGGCT
	2224	TACGCGTTCTAGTTGGCCGGATCC	GGATCCGGCCAACTAGAACGCGTA
15	2225	TTTATGGGTTTGTGCCTGATGGGT	ACCCATCAGGCACAAACCCATAAA
	2226	GGGACCCCTAGCAACGTCACCTTA	TAAGGTGACGTTGCTAGGGGTCCC
	2227	CTGCCTCCCAGGAGTCATTGGAT	ATCCAATGACTCCTGGGGAGGCAG
,	2228	AACCCCGCAAGACCAGTACCAATC	GATTGGTACTGGTCTTGCGGGGTT
	2229	GGTCACATACGCGCTAAAAAGCGC	GCGCTTTTTAGCGCGTATGTGACC
20	2230	AAATGGCTCCGACCAGTTAGGGAC	GTCCCTAACTGGTCGGAGCCATTT
	2231	AACGCGGCACGCTTAAAGGTGCAT	ATGCACCTTTAAGCGTGCCGCGTT
	2232	GATCGCACGCCGATTAACCTTACA	TGTAAGGTTAATCGGCGTGCGATC
	2233	CCTCCTGATTGGGAGTGCGGAATT	AATTCCGCACTCCCAATCAGGAGG
	2234	CGGAGGGTAATAGGCTCCTCTGCG	CGCAGAGGAGCCTATTACCCTCCG
25	2235	ACAAGAACTGGACATTACCGCGGG	CCCGCGGTAATGTCCAGTTCTTGT
	2236	TGTCGTCTTAAAGGCCTTTGTGCG	CGCACAAAGGCCTTTAAGACGACA
	2237	GGTGACCATGTGGCGTTTTAGCTT	AAGCTAAAACGCCACATGGTCACC
	2238	CACGGTTGCGCACGGTACCAGAAC	GTTCTGGTACCGTGCGCAACCGTG
	2239	CCTTTATTGTTTGGTCCCCTGCCC	GGGCAGGGGACCAAACAATAAAGG
30	2240	GTGCGCCTGCATTCTACCGTCAAT	ATTGACGGTAGAATGCAGGCGCAC
	2241	GTTTACGTTGATGGCTTGCCGCCG	CGGCGGCAAGCCATCAACGTAAAC
	2242	CCGTCGGTGGTAGGACGTGAATGT	ACATTCACGTCCTACCACCGACGG
	2243	TGATCGCCCAGAATCCCTGTGCT	AGCACAGGGATTCTGGGGCGATCA
	. 2244	AAGCAGCCAAAAATCGGTTGCTTT	AAAGCAACCGATTTTTGGCTGCTT
35	2245	CGACGGGACTTAGTAGCAGGGCCT	AGGCCCTGCTACTAAGTCCCGTCG
	2246	CCGATTCGCGAAACGACCAAGTAG	CTACTTGGTCGTTTCGCGAATCGG
	2247	CCACCCCAACTCCAATCTTTCTCA	TGAGAAAGATTGGAGTTGGGGTGG
	2248	GTGCAGTAGACGACTACCGGCGTC	GACGCCGGTAGTCGTCTACTGCAC
	2249	TTCGCCCATCGTATCAAGCAATTC	GAATTGCTTGATACGATGGGCGAA
40	2250	GAATCGCGACTACCCGTCGGGTCA	TGACCCGACGGGTAGTCGCGATTC
	2251	CCAGCACTCGCCATCGGTTATAAT	ATTATAACCGATGGCGAGTGCTGG

_			
	2252	CGAACCGTAGAACTCCGGTCGGTG	CACCGACCGGAGTTCTACGGTTCG
	2253	GCACCATGACAGAGCCCCAGGATG	CATCCTGGGGCTCTGTCATGGTGC
	2254	TGGGCTACCGCAGAATAAGGGTGA	TCACCCTTATTCTGCGGTAGCCCA
	2255	TGGCCTGTCGTGTCGAAGGAAACA	TGTTTCCTTCGACACGACAGGCCA
· 5	2256	GCCTCACCGATAGCGAGCGTTTGC	GCAAACGCTCGCTATCGGTGAGGC
	2257	GTGCGCGCCGGCTAAAACGAGACA	TGTCTCGTTTTAGCCGGCGCGCAC
	2258	CCGCAGACGAGTTTCTTGTGACAG	CTGTCACAAGAAACTCGTCTGCGG
	2259	GTTCGCAATCGCGTGCTAGGAAGC	GCTTCCTAGCACGCGATTGCGAAC
	2260	TGTTGTACACATGCATCCGGTGAA	TTCACCGGATGCATGTGTACAACA
10	2261	CACTGAACACGATATAAGGGCGCG	CGCGCCCTTATATCGTGTTCAGTG
	2262	CGCGATGGTTCTTAGCAAGACGAT	ATCGTCTTGCTAAGAACCATCGCG
	2263	TACACCAAGGAAGAAATGGGGACG	CGTCCCCATTTCTTCCTTGGTGTA
	2264	CGTGCCTTGCGTTTTAGGTGCAGC	GCTGCACCTAAAACGCAAGGCACG
	2265	GTCGTTTGTCTGGGCATTAACGGC	GCCGTTAATGCCCAGACAAACGAC
15	2266	CAGGCTCTCGTTCGGTACAAACGT	ACGTTTGTACCGAACGAGAGCCTG
	2267	CGGACACTGTTTCACCAGAACCCA	TGGGTTCTGGTGAAACAGTGTCCG
	2268	TACCCATGATGCGGAAGAAGCGTA	TACGCTTCTTCCGCATCATGGGTA
	2269	CTGTCCTTAAGCGGATGAGAACCG	CGGTTCTCATCCGCTTAAGGACAG
	2270	CGGGAGATGAGAACGGTTTTGTGC	GCACAAAACCGTTCTCATCTCCCG
20	2271	TAGATCGCGACTGTACTCAGGCCG	CGGCCTGAGTACAGTCGCGATCTA
	2272	TAAAACAGTTCGCGCGACTGTCGT	ACGACAGTCGCGCGAACTGTTTTA
	2273	CGAGGAGCTCCACATAAGCCCAAT	ATTGGGCTTATGTGGAGCTCCTCG
,	2274	TGGCTAGGGATGGGGAATCATCTT	AAGATGATTCCCCATCCCTAGCCA
	2275	AGGATTGGGTGCCTGGATGCATTG	CAATGCATCCAGGCACCCAATCCT
25	2276	TGTATCTACCGGCCTGAAGCAGGT	ACCTGCTTCAGGCCGGTAGATACA
	2277	TCCCTACGCGCATGACTCGCTTAC	GTAAGCGAGTCATGCGCGTAGGGA
	2278	TGGTCGATCACCTGTGACAGACGC	GCGTCTGTCACAGGTGATCGACCA
	2279	TGGGGTAGTCCATGCATCAATTG	CAATTGATGCATGGACTACCCCCA
	2280	CCCTGCCAGGATTACTATTCCGGA	TCCGGAATAGTAATCCTGGCAGGG
30	2281	TCCCGCACGGGGAATTTAAGTAGA	TCTACTTAAATTCCCCGTGCGGGA
	2282	GTGATGTGCAGGAACTTCTGTCGC	GCGACAGAAGTTCCTGCACATCAC
	2283	ATTTAGGCATGCATGCGCTTCTCA	TGAGAAGCGCATGCATGCCTAAAT
	2284	TTCGGCGCTAGTGGACGCCGTCAA	TTGACGGCGTCCACTAGCGCCGAA
	2285	GAGCTTCATCTCATCAGTTCCGCG	CGCGGAACTGATGAGATGAAGCTC
35	2286	GACAACTCCACTGCTCCAATCGCA	TGCGATTGGAGCAGTGGAGTTGTC
	2287	GGCCAAGGATGGACCTTACGATGG	CCATCGTAAGGTCCATCCTTGGCC
	2288	GGTTCCGGAATTTGTCACCGCTTC	GAAGCGGTGACAAATTCCGGAACC
	2289	GCGCTGGATAGTCTGCGAGAAGCC	GGCTTCTCGCAGACTATCCAGCGC
	2290	TGAGTCCAGTGCTGCCACCATGAA	TTCATGGTGGCAGCACTGGACTCA
40	2291	TTGAATTGGGTGTCGGAGCGTTCT	AGAACGCTCCGACACCCAATTCAA
	2292	CGGCGGCAGACAATGCTTTGAAC	GTTCAAAGCATTGTCTGCCCGCCG

1			T
	2293	GGGTCTGTCAAAGAGGGTGTCTGG	CCAGACACCCTCTTTGACAGACCC
	2294	CTTTGTGCAAGACGAAGCACCCTT	AAGGGTGCTTCGTCTTGCACAAAG
	2295	ATCGAATTCCGAGGAGGTCTCCAT	ATGGAGACCTCCTCGGAATTCGAT
	2296	TCCGACCCTCAGAGTCGACTCATT	AATGAGTCGACTCTGAGGGTCGGA
5	2297	ATCAACGGCCACCTCCTCGCCGAG	CTCGGCGAGGAGGTGGCCGTTGAT
	2298	AGCCACGGAATAATTCCGTCCACC	GGTGGACGGAATTATTCCGTGGCT
	2299	GATCGCTTGCGTATCGCAAAGACT	AGTCTTTGCGATACGCAAGCGATC
	2300	TCCACGCCTTACCATCAACTGCAA	TTGCAGTTGATGGTAAGGCGTGGA
	2301	GCCAAGCGATAGGCCAGAACTCAG	CTGAGTTCTGGCCTATCGCTTGGC
0	2302	AGCGTGTGGGTCATTTTAGCACGA	TCGTGCTAAAATGACCCACACGCT
	2303	GTTATGCGCGGCTTACGAGTTCGA	TCGAACTCGTAAGCCGCGCATAAC
	2304	TCTGTCCACGTAACTTGCCTGCAG	CTGCAGGCAAGTTACGTGGACAGA
	2305	TCGGCAGCCAATGATCATACCTCT	AGAGGTATGATCATTGGCTGCCGA
i	2306	TAAGCCCGATCCGGTCCTGTGTTT	AAACACAGGACCGGATCGGGCTTA
5	2307	ACATGGCAGACTAACAGGCCTCGC	GCGAGGCCTGTTAGTCTGCCATGT
	2308	CATGGCTGCACTCTAAGTCGAACG	CGTTCGACTTAGAGTGCAGCCATG
	2309	TCTTCAACCCACGCGGAACGATTG	CAATCGTTCCGCGTGGGTTGAAGA
	2310	CTCGTGTCTCCAGAGGATTGTCCC	GGGACAATCCTCTGGAGACACGAG
	2311	TGAAGGCATCAACCCAGAGGATTT	AAATCCTCTGGGTTGATGCCTTCA
!0	2312	ACAGCTCGAAGGCAGCCACATTGG	CCAATGTGGCTGCCTTCGAGCTGT
	2313	ACAACGAGTACCGCGACAGAAGGG	CCCTTCTGTCGCGGTACTCGTTGT
	2314	ATAACCGAAAAACCAGCCTGCGAT	ATCGCAGGCTGGTTTTTCGGTTAT
	2315	ACAACTCAGCACTTTCGACGTCCA	TGGACGTCGAAAGTGCTGAGTTGT
	2316	CGGGTTACTGGGTATCACCAATGC	GCATTGGTGATACCCAGTAACCCG
25	2317	CATCGGTTATCGCTGCACGCGCGT	ACGCGCGTGCAGCGATAACCGATG
	2318	GAAGGAATCCCGGATAGTCCGTGG	CCACGGACTATCCGGGATTCCTTC
	2319	GCATGGTCTCAGCCAAAGAACCTG	CAGGTTCTTTGGCTGAGACCATGC
	2320	AGCCTGCGACGTTTCCCGACAGAC	GTCTGTCGGGAAACGTCGCAGGCT
	2321	AAGAAAGGCGCACGGGATCGATAT	ATATCGATCCCGTGCGCCTTTCTT
30	2322	TGTCGCGAAGCCAACTTTCAGTAA	TTACTGAAAGTTGGCTTCGCGACA
	2 <del>32</del> 3	GCGGCATGCAAGGTAGGTCTGGAT	ATCCAGACCTACCTTGCATGCCGC
	2324	GGTGGCCATCTCCTCGAATTGCAT	ATGCAATTCGAGGAGATGGCCACC
	2325	GCGTGCATAAGTTGCACATTGTGC	GCACAATGTGCAACTTATGCACGC
	2326	TTGAGGTAGCGTTTTCGCGCATAT	ATATGCGCGAAAACGCTACCTCAA
35	2327	ATCCCACTTGTGAGAGGGCGCATT	AATGCGCCCTCTCACAAGTGGGAT
	2328	CGGTCAGCGAGCAGACATCAACCT	AGGTTGATGTCTGCTCGCTGACCG
	2329	GCGTATCTTCGGGTCGAACACTTG	CAAGTGTTCGACCCGAAGATACGC
	2330	ATGCCATTGAACTCGCACTTTGCG	CGCAAAGTGCGAGTTCAATGGCAT
	2331	CGATTCCCATCATAATGTGGGTCC	GGACCCACATTATGATGGGAATCG
40	2332	CAATTTGGATAATCCAGCCACGCC	GGCGTGGCTGGATTATCCAAATTG
	2333	CGGCTTACCCTATGATTCCGTGCA	TGCACGGAATCATAGGGTAAGCCG

	2334	GGTGGACCATGCGCTGTGGTATGA	TCATACCACAGCGCATGGTCCACC
	2335	TATTTGTCGAAGATCGCAAGCGCC	GGCGCTTGCGATCTTCGACAAATA
	2336	GTCAGTGGGTTTTGAGAGCCCGCA	TGCGGGCTCTCAAAACCCACTGAC
	2337	AGGGGTCGGGAAATCTGACAAAA	TTTTGTCAGATTTCCCGACCCCCT
5	2338	TGCTTGCTATCCGAAAAAAGCAGG	CCTGCTTTTTCGGATAGCAAGCA
	2339	TTATCGGATCAAATTCGGCTTCGG	CCGAAGCCGAATTTGATCCGATAA
	2340	TGCAGCAACGAGTTACCCGGACTT	AAGTCCGGGTAACTCGTTGCTGCA
	2341	TATACATGTCCGGAGGGGCACCCA	TGGGTGCCCCTCCGGACATGTATA
	2342	TGCAAAACCGGAGGATGAACCCTT	AAGGGTTCATCCTCCGGTTTTGCA
10	2343	TCGGTCTAATGTCCACGCAGACAC	GTGTCTGCGTGGACATTAGACCGA
	2344	ATGTGTTTGCCACGCGCTCCTATT	AATAGGAGCGCGTGGCAAACACAT
	2345	TGGCGAGGCACGGCTCTAATTCGG	CCGAATTAGAGCCGTGCCTCGCCA
	2346	GCGACGACCCGAGCGACTTTTACA	TGTAAAAGTCGCTCGGGTCGTCGC
	2347	CTCAGAGAGTCTATCCGGCGCCCT	AGGGCGCCGGATAGACTCTCTGAG
15	2348	GGAACATCTCCTGGGTCCCTCAGA	TCTGAGGGACCCAGGAGATGTTCC
	2349	GCAACGCAGGGAAGTACTTAGCGA	TCGCTAAGTACTTCCCTGCGTTGC
	2350	TGACTTGGGCGGACAAAGAAACGC	GCGTTTCTTTGTCCGCCCAAGTCA
	2351	AGATCATCGGGACGCTTCATGCTA	TAGCATGAAGCGTCCCGATGATCT
	2352	CCCTTCTGACCGCTAAGGCCATAA	TTATGGCCTTAGCGGTCAGAAGGG
20	2353	CGTGAGCCGTGGGGTGTCTCTGTA	TACAGAGACACCCCACGGCTCACG
	2354	TACCTTGGTCGTCTCCGCTTTTGT	ACAAAAGCGGAGACGACCAAGGTA
	2355	TCGCCGCAAAATGCTACGTGAAAA	TTTTCACGTAGCATTTTGCGGCGA
	2356	GAGTGACCTAATGGCTGCCCGACT	AGTCGGGCAGCCATTAGGTCACTC
	2357	AAAGGAACTTGGCCAACCCTATGG	CCATAGGGTTGGCCAAGTTCCTTT
25	2358	TGTTTTCGCACTCCACCTAATCGC	GCGATTAGGTGGAGTGCGAAAACA
	2359	CAATGGGTTTCATAAGGGCAGGCA	TGCCTGCGCTTATGAAACCCATTG
	2360	GCCTAACACACAAGGGTCCCTCTG	CAGAGGGACCCTTGTGTGTTAGGC
	2361	CGTCATGCGGTCCGAGGATCGATC	GATCGATCCTCGGACCGCATGACG
	2362	CCACACGGGCACGGAGTAATATCT	AGATATTACTCCGTGCCCGTGTGG
30	2363	CATCAGACATAGGTCGCGTGCCGA	TCGGCACGCGACCTATGTCTGATG
	2364	AGATGAAACCAAGGGAGGACGCAG	CTGCGTCCTCCCTTGGTTTCATCT
	2365	GGCTACCCATAGGCTCAGCAGCAC	GTGCTGCTGAGCCTATGGGTAGCC
	2366	GGCTTGTGAGGGTGTGTTCTCGAC	GTCGAGAACACACCCTCACAAGCC
	2367	TGTGTTACGGCGAATGCAACAGTC	GACTGTTGCATTCGCCGTAACACA
35	2368	CGATAACAGGTCGCGCCGTTACTA	TAGTAACGGCGCGACCTGTTATCG
	2369	TGATAAAGTGAGGCTCCAGCGCGA	TCGCGCTGGAGCCTCACTTTATCA
	2370	AATTGTGCACGGATCTGCACGGCG	CGCCGTGCAGATCCGTGCACAATT
	2371	GCAATGTACTGTCACCAGTGGCGA	TCGCCACTGGTGACAGTACATTGC
	2372	GGCATATCGGTAACACTTGGTCGG	CCGACCAAGTGTTACCGATATGCC
40	2373	GGGTCTCAAACCAGCGTGGCCGCT	AGCGGCCACGCTGGTTTGAGACCC
40	1		

2376   GCCTTCGGCATTCAGACGGGTTG				
2377   GGCAGGCCCGCGAGGATGATTAAC   CTTAATCATCCTCGCGGGCCTGCC		2375	GGCCTTCGGCATTCAGACGGGTTG	CAACCCGTCTGAATGCCGAAGGCC
2378		2376	CGTGATAGGCCACAGCGCTCAATT	AATTGAGCGCTGTGGCCTATCACG
5 2379 ACGACGTCCTTGGGACCGTATTGT ACAATACGGTCCAAGGACGTCGT 2380 CTGATATCGAGCCTGAGCCTTTCG CGAAAGGCTCAGGCTCGATATCAG 2381 TCCCATTGGCCTGTATGCTGGCCT AGGCCAGCACACAGCACAC 2382 GTGTCGTCGATTGTTCATCGACG CGTCGATGAAACAATCGACGACACA 2383 CGAAAGCCAGTAGCCGATTGCGTG CACGCAATCGGCACACAC 2383 CGAAAGCCAGTAGCCGATTGCGTG CACGCAATCGGCTACTGGGTTCCG 2385 AGCGAGGGCTAACTTTTTAACGCG CGCGTTAAAAAGTTAGCCCGACC 2385 AGCGAGGGCTAACTTTTTAACGCG CGCGTTAAAAAGTTAGCCCTCGCT 2386 CGGCGCTGATGACGGGACTCGATT AATCGAGTCCCGTCATCAGCGCCG 2387 TCACAGTGCTCGGCGTAAGGACACA TAGCCCGAGCACTTGTGC 2388 GCCCATTACGAGCACACACCATGGC CCCGTTAAAAAGTTAGCCCTCGCT 2389 GCCGCTAATCTTTTACGCATCACG CGTGATGCTGTATTGGG 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGCGCTGAACACACACATGGC 2391 CTGTCAGGTCCTACCCAATGGCTC 2392 CACAGCCCATCCCACTGAACTGCT AGCGCTGAGACACTAGGAAGCCGT 2393 ACGAACGACACACCATGGC CGTGATGCGTAGGAGACCTGACAC 2393 ACGAACGACACACCATGGCT AGCAGTTCAGTGGGAGCACTGACAC 2393 ACGACCATCCCACTGAACTGCT AGCAGTTCAGTGGGAGCGCTGACAC 2394 TGGCGGCCAGCCACTGCAACTGCT ACCAAGCGTTGCGTAGGAGCTGACAC 2395 ATCTCGAAACGATGCGTGCTG CACACGCTTTCCGTATTGGTTTGT 2396 ATCTCGAAACGATGCGTGCGTGCGCCCCA 2397 GAAGAAATCCGCCGAACTCTACGC 2398 ATCTCGAAACAGCGTGCGTGCGCCCCA 2399 CGCGAACCACCTTGCCTAAA TTTAGGCACCCACTGTTTCCAGAT 2399 CGCGAACAACCTTGCCTGCTTTCTA TAGAAACAGCCAACGCTGTTTCCGAGAT 2399 CGCGTTCCGAAGACTTGCTTTTTA TAGAAACAGCCAACGCTGTTTCCGACAC 2400 TGACCTGCAAGCCCTTCCTAAACCA TGCTTTTTTATAGACACCCAACGCTGTTTCCGACACCCCACCCCTTTTCCGAACCCCACCCCTTTTCCGAACCACCCAC		2377	GGCAGGCCCGCGAGGATGATTAAC	GTTAATCATCCTCGCGGGCCTGCC
2380 CTGATATCGAGCCTGAGCCTTTCG CGAAAGGCTCAGGCTCGATATCAG 2381 TCCCATTGGCCTGATTGCTGGCCT AGGCCAGCATACAGGCCAATGGGA 2382 GTGTCGTCGATTGTTTCATCGACG CGTCGATGAAACAATCGACGACAC 2383 CGAAAGCCAGTAGCCGATTGCGTG CACGCAATCGGCTACTGGCTTATTCATCGACG 2384 GGTTCGGCTTATTCCACTGCGACA TGTCGCAGTGGAATAAGCCGAACC 2385 AGCGAGGGCTAACTTTTTAACGCG CGCGTTAAAAAGTTAGCCCTCGCT 2386 CGGCGCTGATGACGGGACTTGATT AATCGAGTCCGTCATCAGCCCAC 2387 TCACAGTGCTCGGCGTAAGGACTA AATCGAGTCCGTCATCAGCCCCG 2388 CCCATTACGAGCACACACCATGGC GCCATGGTGTTATGCCCTGGTA 2389 GGCCGCATAATCTTTACCACC GCATGGTGTGTGCTCGTAATGGG 2390 ACGGCTTCCTAGTGTCCACCCCTTT AAGGCCTGAACAATAAGCTGACCACACACATGGC 2391 CTGTCAGGTCCAACTGCC GCATGGTGTGTAGGAACCACACACACACATGGC 2392 CACAGCCCATCCCACTGAACTGCT GAGCCATTCAGTGGGACACTAAGAACCGAACC		2378	CGGGTATGGTTGATAACAGCGTGG	CCACGCTGTTATCAACCATACCCG
2381 TCCCATTGGCCTGTATGCTGGCCT 2382 GTGTCGTCGATTGTTTCATCGACG 2383 CGAAAGCCAGTAGCCGATTGCTGC 2384 GGTTCGCTGATTGCTTGCACG 2385 AGCGAGGGCTAACTTGTTTCACTCGACA 2385 AGCGAGGGCTAACTTTTTAACGCG 2386 CGGCGCTGATTGCACTA 2387 TCACAGTGCCGATT 2388 CCCATTACGACGACTA 2388 CCCATTACGACGACTA 2388 CCCATTACGACGACTA 2388 CCCATTACGACGACTA 2388 CCCATTACGACGACTA 2388 CCCATTACGAGCACACACCATGCC 2387 TCACAGTGCTCGGCGTAAGGACTA 2388 CCCATTACGAGCACACACCATGCC 2389 GGCCGCTAATCTTTTACGCATCACC 2390 ACGCCTTCCTAGTGCACACC 2391 CTGTCAGGTCCACCCCACTGCC 2392 CACAGCCCATCCCACCTGAACTGCT 2392 CACAGCCCATCCCACTGAACTGCT 2393 ACAAACGATACACGCACACCCTTG 2394 TGGCGGCCAGCCACACCCTTGCACCCCATGGACTAGGAGCCCTT 2395 ATCTCGAACACGCTGGCTCACCCACTGACTGCT 2396 ATCTCGAGACCACCCATGCCCACTGACTGCT 2397 GAAGAAACGATCACGCCTTTCAGCCCCCACCTGCACCCCACCCCCACCCCCACCCCCACCCCCACCCCCACCCC	5	2379	ACGACGTCCTTGGGACCGTATTGT	ACAATACGGTCCCAAGGACGTCGT
2382 GTGTCGTCGATTGTTTCATCGACG 2383 CGAAAGCCAGTAGCCGATTGCGTG 2384 GGTTCGGCTTATTCCACTGCGACA 2385 AGCGAGGGCTAACTTTTTCAACGCG CGCGTTAAAAAGTTAGCCCTGCGT 2386 CGGCGCTGATGACGGGACTCGATT ATCGAGTCCGTCATCAGCCGACA 2387 TCACAGTGCTCGGCGTAACACTTTTTAACGCG 2388 CCGCGTTACAACTTTTTAACGCACTGCGACA 2388 CCCATTACGAGCGACACACACCATTGC 2388 CCCATTACGAGCACACACCATTGC 2389 GGCCGCTAAATCTTTACGCATCACG 2390 ACGGCTTCCTAGTGTCCAGCCCTT 2391 CTGTCAGGTCCACCACTTGGC 2392 CACAGCCCATCCCACTGACT 2393 ACAAACGATACACCACTGGC 2393 ACAAACGATACACGCACACCACTGGC 2394 TGGCCGGCAACCCATTGGC 2395 ATCTCGAACCGCACACTGTA 2396 ATCTCGAAACGATGCCT 2397 GAAGAAATCCGCCGCGAACTACTTTAGCCACCACTGGCACACTTGGAACTGTT 2398 GCGGCTAACTTTACGCACCACTGTACACGCACACCCTTGACACGCACACTTCCACTGACACGCACACCCTTGGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTGCACACGCTTCCACACCACTCCCACTACACACAC		2380	CTGATATCGAGCCTGAGCCTTTCG	CGAAAGGCTCAGGCTCGATATCAG
2383 CGAAAGCCAGTTAGCCGATT  2384 GGTTCGGCTTATTCCACTGCGACA TGTCGCAGTGGATTAGCCGACC  2385 AGCGAGGGCTAACTTTTTTACGCG CGCGTTAAAAAGTTAGCCCGACC  2386 CGGCGCTGATGACGGGGACTAT TAGTCCTACGCGCCGACC  2387 TCACAGTGCTCGGCGTAAAGGACTA TAGTCCTTACGCCGACCGGTGATAGAGGACTA  2388 CCCATTACGAGCACACACCATGC GCCATGGTGTGTATCAGCGCCG  2389 GGCCGCTAATCTTTACGCATCAC GCCTGGATAGGACTATAGGCGCCGACCACCATGGC GCCATGGTGTGTGCTCGTAATGGG  2390 ACGGCTTCCTAGTGTCAGCCCTT AAGGGCTGAAAGATTAGCGGCC  2391 CTGTCAGGTCCACCCACTGAACTGCT AGCAGTTAGGTAGGACCGTGACAG  2392 CACAGCCCATCCCACTGAACTGCT AAGGGCTGGACACTAGGAAGCCGT  2393 ACAAACGATACACCCAACGCTTG CACAGCGTTGCGTATGGGACCTGACAG  2394 TGGCGGGCCAGCTTAGCAGGGCGAACT ACTCGCCTGTAATGGGTAGGAACCGCACCACCACTGAACTGCT ACAGCGTTTCCGTGTATCGTTTGT  2395 ATCTCGAAACGATGCCTACACGCTTGCACGCGCCCACCCCACCCCACCCCCACCCCCACCCCCACCCCCACCCC		2381	TCCCATTGGCCTGTATGCTGGCCT	AGGCCAGCATACAGGCCAATGGGA
10 2384 GGTTCGGCTTATTCCACTGCGACA TGTCGCAGTGGAATAAGCCGAACC 2385 AGCGAGGGCTAACTTTTTAACGCG CGCTTAAAAAGTTAGCCCTCGCT 2386 CGGCGCTGATGACGGGACTCGATT AATCGAGTCCCGTCATCAGCGCCG 2387 TCACAGTGCTCGGCGTAAGGACTA TAGTCCTTACGCCGAGCACTGTGA 2388 CCCATTACGAGGCACACCATGGG GCCATGGTGTGTATCGGC 2389 GGCCGCTAATCTTTACGCATCACG GCCATGGTTGTGCTCGTAATGGG 2389 GGCCGCTAACTTTACGCATCACG GCCATGGTGTGTGCTCGTAATGGG 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGGGCTGGACACTAGGAAGCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGACACTAGGAAGCCGT 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGTAGCTGGCCCCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCACCTTTCGAGAT 2396 ATCTCGAAACAGCGTGCGGCCCAATTTTCGCAGAT TTTAGGCACCACGCTGTTTCCGAGAT 2397 GAAGAAATCCGCCGCACATCTACGG CCGCACGCACGCTGTTTCCGAGAT 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCGGA 2399 CGCGTTCCGAAGACTTGTTTTTA TAGAAACAGCCAAGGTTGCTCGGC 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATCGGAATGACCGC 2401 TGGTATTCATTCCGGATAAGCAG TGCTTATCGGAATGAATTCCAC 2402 GCGTTTCCGGATAAGCAG TCTTATGGATGGGCTTCAGGTCA 2404 GCAATTGATCATTCCGGATAAGCAG TTCAGGACCCAACGCTTCAGAGCCAACGCC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACACAAACAAATTCCACAACACAA		2382	GTGTCGTCGATTGTTTCATCGACG	CGTCGATGAAACAATCGACGACAC
2385 AGCGAGGCTAACTTITTAACGCG CGCGTTAAAAAGTTAGCCCTCGCT 2386 CGGCGCTGATGACGGGACTCGATT AATCGAGTCCCGTCATCAGCGCCG 2387 TCACAGTGCTCGGCGTAAGGACTA TAGTCCTTACGCCGAGCACTGTGA 2388 CCCATTACGAGCACACACCATGGC GCCATGGTGTGTGTCTCAATCGGC 2389 GGCCGCTAATCTTACGCCATCAGC CGTGATGCGTCAATCGGG 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGGGCTGGAACCACACCATGGC 2391 CTGTCAGGTCCTACCCAATGGCT CAGCGCTTAAGGAACCCTGACACACACCATGGCT 2392 CACAGCCCATCCCACTGAACTGCT AAGGACTTAGGAGACCCTGACACACACACACACTGTGC CACAGCGTTGCGTAAGACTGTGTCAGCCCTT 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGACACGACAC		2383	CGAAAGCCAGTAGCCGATTGCGTG	CACGCAATCGGCTACTGGCTTTCG
2386 CGGCGCTGATGACGGGACTCGATT AATCGAGTCCCGTCATCAGCGCCG 2387 TCACAGTGCTCGGCGTAAGGACTA TAGTCCTTACGCCGAGCACTGTGA 2388 CCCATTACGAGCACACCACTGGC GCCATGGTGTGTGCTCGTAATGGG 2389 GGCCGCTAATCTTTACGCATCACG GCCATGGTGTGTGCTCGTAATGGG 2390 ACGGCTTCCTAGTGCCAGCCCTT AAGGGCTGAACATAGAGAACCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAAGGAACCCGT 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGACACACACACACACACCACTGCAACTGCT AGCAGTTCAGTGGGATGGGCTTGG 2393 ACAAACGATACACGCAACGCTGTG CACAGCCTTGCGTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGACGCACAGCTGTGC ACCAGCCTTGCGTGTATCGTTTGT 2395 ATCTCGAAACGATGCAGCGGAACGT ACTTCGCCTGCTAGCTGGCCGCACACACACACACACACAC	10	2384	GGTTCGGCTTATTCCACTGCGACA	TGTCGCAGTGGAATAAGCCGAACC
2387 TCACAGTGCTCGGCGTAAGGACTA TAGTCCTTACGCCGAGCACTGTGA 2388 CCCATTACGAGCACACCACTGGC GCCATGGTGTGTGCTCGTAATGGG 2389 GGCCGCTAATCTTTACGCATCACG CGTGATGCGTAAAGATTAGCGGCC 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGGGCTGACACTAGGAAGCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT ACCAGTTGAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTTCGCTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCCA 2395 ATCTCGAAACGATGCCTAAA TTTAGGCACGCATCGCTGGAGT 2396 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGCACGCACGCTGTTCTCGAGAT 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTTTT TAGAAACAGCCAAGGTTGCTCCGC 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGACGCACGCT 2401 TGGTATTCATTCCGGATAAGCA TGCTTATGGATGGGCTCAACA 2402 GCGTTGCGGGTCATTGATGCAAC GTTTTGCAGAACGCG 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGG CCCGCTTACCCGGAACGCCAACGC 2404 CAAATAGACAATCGAGCCCTGA TCAGGG CCCGCTTACCAGAAAAGCCGGT 2405 TGTCCTGACAATCAAGCA TCCTTAGCATCAATGACCCGCAACGC 2406 AAATTGCACTCGCGGATATCCTAACCA TCAGGGCTCTACACAGAAAGCGGT 2407 TGCCTGACAATCAAGGCCCTGA TCAGGGCTCTACACAGAAAAGCGGT 2408 TGTTCCGCACAATCAAGTGCAGG CCCGCAACGCTCACACGCACGCCACGC		2385	AGCGAGGGCTAACTTTTTAACGCG	CGCGTTAAAAAGTTAGCCCTCGCT
2388 CCCATTACGAGCACACCATGGC GCCATGGTGTGTGTCTCGTAATGGG 2389 GGCCGCTAATCTTTACGCATCACG CGTGATGCGTAAAGATTAGCGGCC 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGGGCTGACACTAGGAAGCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGGCTAGCTGGCCACAGCGCCACAGCGCAACGCTTGCAACAGCTTGCAACAGCAACGCTAGCAACGCTAAAA TTTAGGCACCGATCGTTCCAGCAACACACACACACACACA		2386	CGGCGCTGATGACGGGACTCGATT	AATCGAGTCCCGTCATCAGCGCCG
15 2389 GGCCGCTAATCTTTACGCATCACG CGTGATGCGTAAGATTAGCGGCC 2390 ACGGCTTCCTAGTGTCCAGCCCTT AAGGGCTGGACACTAGGAAGCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTATCGTTTGT 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCAC 2395 ATCTCGAAACGATGCGTGCGTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAAACGATGCGTGCGTGCGG CCGCACGCACGCATCGTTTCGAGAT 2397 GAAGAAATCCGCCGACATCTACCG CCGTAGATGTCGGCGGATTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2400 TGACCTGAAGACCATCTGTTTTTT CAAACAACACACAGTCTTCGGAACCGCG 2401 TGGTATTCATTCCGGATAAGCA TGCTTATGGATGGCTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCAAC GTTTATGGATGGGCTTCAGGTCA 2402 GCGTTTCCGGATAAGCAAC GTTTATGCATCAATGACCAGCAACGCC 2403 ACCGCTTTCTGTGTAGGACCCTGA TCAGGGCTACAACAAAAACAAGCCAACGCGAACGCC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTACAACAAAAACAAGCCGAACGCG 2404 CAAATAGACAAATCGCAGCTTCGGG CCCGCATCAACAAAAACAAGCGGT 2405 TGTCCTGACAAATCAAGACAATCGCAGCTTCCGG CCCGAACGCTACAACAAAAACAAAATCGCAGAAATCAAACAAA		2387	TCACAGTGCTCGGCGTAAGGACTA	TAGTCCTTACGCCGAGCACTGTGA
2390 ACGCTTCCTAGTGTCCAGCCCTT AAGGGCTGGACACTAGGAAGCCGT 2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAGAACAGCTGCGGG CCGCACGCACGCATCGTTTCTCAGAGT 2397 GAAGAAATCCGCCGACATCTACGG CCGCACGCACGCTGTTCTCGAGAT 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTTTT CAAAACAACACAGTCTTCAGGACCCA 2400 TGACCTGAAGCCCATCATAAGCA TGCTTATGGATTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCA TGCTTATCCGGAATGACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCA 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTAACACAGAAAGCGGT 2404 CAAATAGACAATCACAGCTTCCGG CCCGCAACGTGCAATTTTG 2405 TGTCCTGACAAATCAAGGTGCAGC CCCGAACCTGCGAATGATTTTTC 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCCCCGCAACGC 2408 TGTCCTGACAAATCAAGGTGCAAC GTCTAGCAGGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTTCCT ACGAAGCTCCCGAACCG 2409 TCGCTGGCATTGCTGAAC GTCTAGCAGTGCCCTTCCGGAACA 2401 GTGCACCTTGGGAAGGCCTTCGT ACGACAGTGCCCTTCCGAACCA 2402 GCGTTGCGGGAAGCGCACTTCCT ACGACAGCTCCCAACGCAC 2403 TGTCCTGACAATCAAGGTGCAA GCCCACCCTTGATTTTTCAGGACA 2404 CAAATAGACCAATCAAGGTGCAA GCCCACCCTTGATTTTTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTTCCT ACGACAGGCCCTTCCCAAGCCAGCAC 2410 GTGCACCTCGTTGGGAAGGCCTTCCT ACGACCAGCACCGCAACCGAACCCGAACCGAA		2388	CCCATTACGAGCACACACCATGGC	GCCATGGTGTGTGCTCGTAATGGG
2391 CTGTCAGGTCCTACCCAATGGCTC GAGCCATTGGGTAGGACCTGACAG 2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAGAACAGCGTGCGTGCG CCGCACGCACGCATCGTTTCTCAGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGCGCACACGCT 2401 TGGTATTCATTCCGGATAAGCA TGCTTATGGATGGCTTCAGGTCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTCTTACGGAATGAATACCA 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCCGCACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2405 TGTCCTGACAAATCAAGGTGCAGG CCCGCAACGCTCCAACGCTTCAGCACACGCTTCAGCACACACA	15	2389	GGCCGCTAATCTTTACGCATCACG	CGTGATGCGTAAAGATTAGCGGCC
2392 CACAGCCCATCCCACTGAACTGCT AGCAGTTCAGTGGGATGGGCTGTG 2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAACGT ACTTCGCCTGCTAGCTGGCCGCCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAGAACAGCGTGCCGTAAA TTTAGGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGCACGCACGCTGTTCTCGAGAT 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAAGTCTTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGCGATTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCA TGCTTATCGGAACGCG 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTCGCAATTTGC 2405 TGTCCTGACAAATCAAGGTGCAGG CCCGCACGCGATTGTCTATTTG 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAATGCAATT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATTAGAAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGCGAACGA 2409 TCGCTGGCTTGGGAACGCCTTCGT ACGACAGTGCCCTGCGAACGA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGGAACGCCTCCGT ACGCAAGTGCCCTGTCGGAACA 2411 CTCATTTGGGAACGGATGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAAAACAAGAAAGCGCTGCCAACGCCAACGCCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACGCAACCCAACCCAACGCAACCCAACCCAACCCAACCCAACACCAACCCAACCCAACCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACCCAACAAAA		2390	ACGCCTTCCTAGTGTCCAGCCCTT	AAGGGCTGGACACTAGGAAGCCGT
2393 ACAAACGATACACGCAACGCTGTG CACAGCGTTGCGTGTATCGTTTGT 2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAAACAGCGTGCGTGCGG CCGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGTCCAGC 2401 TGGTATTCATTCCGGATAAGCA TGCTTATGGATGGGCTTCAGGTC 2402 GCGTTGCGGGTCATAAGCA TGCTTATCGGAATGACACA 2403 ACCGCTTTCTGTAGAGCCCTGA 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCAACACAGGCT 2405 TGTCCTGACAAATCACAGGTCTCAGG CCCGAAGCTGCATTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCCGAAGCTGCGATTGTTCATTTG 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCAACGC 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATTAAGAAATGGCCGTCA 2408 TGTTCCGACAAGGCATTCCT AGGAAATCTCCCGCAACGA 2409 TCGCTGGCTTGGGAAGCCTTCGT ACGAAGCCTTCCCAAGCCAGCAACACACACACACACACAC		2391	CTGTCAGGTCCTACCCAATGGCTC	GAGCCATTGGGTAGGACCTGACAG
2394 TGGCGGCCAGCTAGCAGGCGAAGT ACTTCGCCTGCTAGCTGGCCGCCA 2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAGAACAGCGTGCGTGCGG CCGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAAGTCTTCGGAACGCG 2400 TGACCTGAAGCCCATCATAAGCA TGCTTATGGATGGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAACGCGCAACGCC 2405 TGTCCTGACAAATCAAGGTGCAGG CCCGAACGCGAATTGTTTTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCAACACA 2410 GTGCACCTCCGTTGGCGTAGAAT CATTCACCCAACGCAACG		2392	CACAGCCCATCCCACTGAACTGCT	AGCAGTTCAGTGGGATGGGCTGTG
2395 ATCTCGAAACGATGCGTGCCTAAA TTTAGGCACGCATCGTTTCGAGAT 2396 ATCTCGAGAACAGCGTGCGTGCGG CCGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAACACTCTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGAATGACCAGCACGC 2401 TGGTATTCATTCCGGATAAGCAG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCAACACACACACACACACA		2393	ACAAACGATACACGCAACGCTGTG	CACAGCGTTGCGTGTATCGTTTGT
2396 ATCTCGAGAACAGCGTGCGTGCGG CCGCACGCACGCTGTTCTCGAGAT 2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAAGTCTTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCTTCGGAACCA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCAC 2410 GTGCACCTCCGTTGGCGTAGAAT CATCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGTTGC GCAACCCGATCGGTCCCAATGAG 2412 GCCAGTGTCTAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTTAATGG CATTACACAGAACCTGCCGAACAA 40 2414 ACCCGCGAACCGAGCCACTTCT AGAAGTGCGTTCCCGGGCAA	20	2394	TGGCGGCCAGCTAGCAGGCGAAGT	ACTTCGCCTGCTAGCTGGCCGCCA
2397 GAAGAAATCCGCCGACATCTACGG CCGTAGATGTCGGCGGATTTCTTC 2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAAGTCTTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCAG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAAT CATCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGCACACGGCA 2413 TTGCCCGGCAACCGAGCGCATTCTT AGAAGTGCGTCCCAAATGAG		2395	ATCTCGAAACGATGCGTGCCTAAA	TTTAGGCACGCATCGTTTCGAGAT
2398 GCGGAGCAACCTTGGCTGTTTCTA TAGAAACAGCCAAGGTTGCTCCGC 2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAACATCTTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCAGGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGCCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAACCGAGCGCATTCT AGAAGTGCGTCCCGAACACGGGCAA 40 2414 ACCCGCGAACCGAGCGACTTCT AGAAGTGCGTCCCGGGCAA		2396	ATCTCGAGAACAGCGTGCGTGCGG	CCGCACGCACGCTGTTCTCGAGAT
2399 CGCGTTCCGAAGACTTGTTGTTTG CAAACAACAAGTCTTCGGAACGCG 2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACCTGGC 2413 TTGCCCGGCAGGTTCTGTTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTTCCGGTTCGCGGGT		2397	GAAGAAATCCGCCGACATCTACGG	CCGTAGATGTCGGCGGATTTCTTC
2400 TGACCTGAAGCCCATCCATAAGCA TGCTTATGGATGGGCTTCAGGTCA 2401 TGGTATTCATTCCGGATAAGCGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGCGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT		2398	GCGGAGCAACCTTGGCTGTTTCTA	TAGAAACAGCCAAGGTTGCTCCGC
2401 TGGTATTCATTCCGGATAAGCGGG CCCGCTTATCCGGAATGAATACCA 2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCACGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGCGCACTTCT AGAAGTGCGTCCCGGTTCGCGGGT	25	2399	CGCGTTCCGAAGACTTGTTGTTTG	CAAACAACAAGTCTTCGGAACGCG
2402 GCGTTGCGGGTCATTGATGCAAAC GTTTGCATCAATGACCCGCAACGC 2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 30 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGCGGGCAA		2400	TGACCTGAAGCCCATCCATAAGCA	TGCTTATGGATGGGCTTCAGGTCA
2403 ACCGCTTTCTGTGTAGAGCCCTGA TCAGGGCTCTACACAGAAAGCGGT 2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGGTTCGCGGGCAA		2401	TGGTATTCATTCCGGATAAGCGGG	CCCGCTTATCCGGAATGAATACCA
2404 CAAATAGACAATCGCAGCTTCGGG CCCGAAGCTGCGATTGTCTATTTG 2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCCCGGGCAA		2402	GCGTTGCGGGTCATTGATGCAAAC	GTTTGCATCAATGACCCGCAACGC
2405 TGTCCTGACAAATCAAGGTGCAGG CCTGCACCTTGATTTGTCAGGACA 2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGCGGGCAA		2403	ACCGCTTTCTGTGTAGAGCCCTGA	TCAGGGCTCTACACAGAAAGCGGT
2406 AAATTGCACTCGCGGAGATTTCCT AGGAAATCTCCGCGAGTGCAATTT 2407 TGACGCCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT	30	2404	CAAATAGACAATCGCAGCTTCGGG	CCCGAAGCTGCGATTGTCTATTTG
2407 TGACGCCATTTCTATATGGTGCA TGCACCATATAGAAATGGGCGTCA 2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 35 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGCCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGCGGGCT		2405	TGTCCTGACAAATCAAGGTGCAGG	CCTGCACCTTGATTTGTCAGGACA
2408 TGTTCCGACAGGGCACTGCTAGAC GTCTAGCAGTGCCCTGTCGGAACA 2409 TCGCTGGCTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT		2406	AAATTGCACTCGCGGAGATTTCCT	AGGAAATCTCCGCGAGTGCAATTT
2410 GTGCACCTCGTTGGGAAGGCCTTCGT ACGAAGGCCTTCCCAAGCCAGCGA 2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT		2407	TGACGCCCATTTCTATATGGTGCA	TGCACCATATAGAAATGGGCGTCA
2410 GTGCACCTCCGTTGGCGTAGAATG CATTCTACGCCAACGGAGGTGCAC 2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT		2408	TGTTCCGACAGGGCACTGCTAGAC	GTCTAGCAGTGCCCTGTCGGAACA
2411 CTCATTTGGGACCGATCGGGTTGC GCAACCCGATCGGTCCCAAATGAG 2412 GCCAGTGTCTGTCAATGGATGGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT	35	2409	TCGCTGGCTTGGGAAGGCCTTCGT	ACGAAGGCCTTCCCAAGCCAGCGA
2412 GCCAGTGTCTGTCAATGGATGGA TCCCATCCATTGACAGACACTGGC 2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT		2410	GTGCACCTCCGTTGGCGTAGAATG	CATTCTACGCCAACGGAGGTGCAC
2413 TTGCCCGGCAGGTTCTGTGTAATG CATTACACAGAACCTGCCGGGCAA 40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGGTTCGCGGGT			CTCATTTGGGACCGATCGGGTTGC	GCAACCCGATCGGTCCCAAATGAG
40 2414 ACCCGCGAACCGAGACGCACTTCT AGAAGTGCGTCTCGCGGGT		2412	GCCAGTGTCTGTCAATGGATGGGA	TCCCATCCATTGACAGACACTGGC
		2413	TTGCCCGGCAGGTTCTGTGTAATG	CATTACACAGAACCTGCCGGGCAA
2415 TCCGTGCGATTGGTCAAGGTTGAT ATCAACCTTGACCAATCGCACGGA	40	2414	ACCCGCGAACCGAGACGCACTTCT	AGAAGTGCGTCTCGGTTCGCGGGT
		2415	TCCGTGCGATTGGTCAAGGTTGAT	ATCAACCTTGACCAATCGCACGGA

	_		
	2416	AGGGCGTCTCGGTTGAACCTCGGT	ACCGAGGTTCAACCGAGACGCCCT
	2417	TGACCGTTCAAAGAGCAAGCCAAC	GTTGGCTTGCTCTTTGAACGGTCA
	2418	ACACTCACCTGCTGTCCCTGCTGA	TCAGCAGGGACAGCAGGTGAGTGT
	2419	GCGTTTAACTCCTTGGGTGGTGGT	ACCACCACCAAGGAGTTAAACGC
5	2420	CGCCTGCGCAGGTAACTCTCCGCA	TGCGGAGAGTTACCTGCGCAGGCG
	2421	AATCGAATTTCCCAGCGGCTGTTT	AAACAGCCGCTGGGAAATTCGATT
	2422	AAGCAGGTGGGATCCTGGGGATCA	TGATCCCAGGATCCCACCTGCTT
	2423	AATCCCAGACTCGCTCTTCGTGCT	AGCACGAAGAGCGAGTCTGGGATT
	2424	ACGGTTATAAGGGCCGGCTGCGAC	GTCGCAGCCGGCCCTTATAACCGT
10	2425	TACGAGAGCGGGCTTAGACGTCGC	GCGACGTCTAAGCCCGCTCTCGTA
	2426	GCGATTTTGACCCACGGTTATCGA	TCGATAACCGTGGGTCAAAATCGC
	2427	AGCTGTATAATTTGGATGGCGCGA	TCGCGCCATCCAAATTATACAGCT
	2428	TCCGCGAGTCTTAGCCGATTGAAC	GTTCAATCGGCTAAGACTCGCGGA
	2429	GGCATCAGCTCCGTAAGCCGATAG	CTATCGGCTTACGGAGCTGATGCC
15	2430	TGTTATTGGCAGTTCGAGCGACAG	CTGTCGCTCGAACTGCCAATAACA
	2431	GCGAGCCTTTTTGCTTGGGAAGAG	CTCTTCCCAAGCAAAAAGGCTCGC
	2432	AGAAGAAAAGGTCAGCGTCGACGA	TCGTCGACGCTGACCTTTTCTTCT
	2433	CGGGTCGACCCTTGAAGCATAACC	GGTTATGCTTCAAGGGTCGACCCG
	2434	CTCGGTTTTCACAAACTTACCGCG	CGCGGTAAGTTTGTGAAAACCGAG
20	2435	GCAGTCCTATCCGGAGCCTGACAA	TTGTCAGGCTCCGGATAGGACTGC
	2436	AAGGTGCGCTATTTGTTGTCGGTC	GACCGACAACAAATAGCGCACCTT
	2437	AGTGGAATCCATGCCGACACCTGA	TCAGGTGTCGGCATGGATTCCACT
	2438	TACAGGCGTAATTCCTGCGAGGGA	TCCCTCGCAGGAATTACGCCTGTA
	2439	CCGAAGTGCGAGAAGCACGTTGTT	AACAACGTGCTTCTCGCACTTCGG
25	2440	AAGGACTGGTATGGCCGGAGCTTT	AAAGCTCCGGCCATACCAGTCCTT
	2441	GGACACCGCCAACCTCATAGTTGC	GCAACTATGAGGTTGGCGGTGTCC
	2442	AATGGTGTTCGCCTGGACTACCAC	GTGGTAGTCCAGGCGAACACCATT
	2443	TAGGAAAGCGTACACGGGAATCCG	CGGATTCCCGTGTACGCTTTCCTA
	2444	TCTCACCCCAATGATGAGGACGTC	GACGTCCTCATCATTGGGGTGAGA
30	2445	CGTGTCCGTGTGACACTGTCCATG	CATGGACAGTGTCACACGGACACG
	2446	TCCAGGCTGTTGCGGATACGGTAG	CTACCGTATCCGCAACAGCCTGGA
	2447	GTAGGCAAAATGGTCGCGATCAAT	ATTGATCGCGACCATTTTGCCTAC
	2448	ATCTCCGTGGACCCGATTGTGACA	TGTCACAATCGGGTCCACGGAGAT
	2449	GAATATGCCGTCAACGCTATGGGC	GCCCATAGCGTTGACGGCATATTC
35	2450	TTCCGGAAGCGTTTGGTAACTTTG	CAAAGTTACCAAACGCTTCCGGAA
	2451	TTCGATAGGAATACCAGGGCCTGG	CCAGGCCCTGGTATTCCTATCGAA
	2452	GGCCATTTGAGGAGGATTATGCAA	TTGCATAATCCTCCTCAAATGGCC
	2453	ACCTTCTGACCTGGACTTTTGGCG	CGCCAAAAGTCCAGGTCAGAAGGT
	2454	GACCAATCCGCAGTTGAGCAACAG	CTGTTGCTCAACTGCGGATTGGTC
40	2455	TCGGCCACTCACCATGAGTGTAGG	CCTACACTCATGGTGAGTGGCCGA
	2456	AGCGCTCACATGTTCGAAAACGGG	CCCGTTTTCGAACATGTGAGCGCT

_			
	2457	TAACGCAAAGGCGCGATCCTCGCT	AGCGAGGATCGCGCCTTTGCGTTA
	2458	TGGGTGGCCAAATATTACTGCAA	TTGCAGTAATATTTGGCCCACCCA
	2459	GTCCTCGAAAGGGGCATCCAAACA	TGTTTGGATGCCCCTTTCGAGGAC
	2460	CCCATCTGGTGGGAGGCGTTATCA	TGATAACGCCTCCCACCAGATGGG
5	2461	GTGCGCGGTCTGCAAACTCGCCAT	ATGGCGAGTTTGCAGACCGCGCAC
	2462	TGTGTTGCCAACCCTAGGTCATCA	TGATGACCTAGGGTTGGCAACACA
	2463	CTGATGCTGTTCTCGTCGGTTGAC	GTCAACCGACGAGAACAGCATCAG
	2464	AAGCTGCAAAAGGTGAGCGTGGCA	TGCCACGCTCACCTTTTGCAGCTT
	2465	TCTGACGCGTGCTTGGGAGTCTAT	ATAGACTCCCAAGCACGCGTCAGA
10	2466	GAATTACTTGGAGGCGCCGTGCAA	TTGCACGGCGCCTCCAAGTAATTC
	2467	GATTCTTCCCGACCTAGGTTGGCC	GGCCAACCTAGGTCGGGAAGAATC
	2468	CGCAGCGTATCCCATGTTGCTTGA	TCAAGCAACATGGGATACGCTGCG
	2469	GAGATGGAATTGTTCGCCCAAAGA	TCTTTGGGCGAACAATTCCATCTC
	2470	GATGCCTGGATCGGTCTAGCGTCA	TGACGCTAGACCGATCCAGGCATC
15	2471	GCAGCGACTGCTAAGCTATCTCGG	CCGAGATAGCTTAGCAGTCGCTGC
İ	2472	AGGGCTAATTTACATCGCCTTGCC	GGCAAGGCGATGTAAATTAGCCCT
	2473	AAGTGCACATCCTCACGAAGCGAT	ATCGCTTCGTGAGGATGTGCACTT
	2474	TCAGGCAGCCGTAATTAAATGCGC	GCGCATTTAATTACGGCTGCCTGA
	2475	CCACTGGGGAAATCGCACTGTTGG	CCAACAGTGCGATTTCCCCAGTGG
20	2476	TTGTCCAAAGCCACCTACGACAGA	TCTGTCGTAGGTGGCTTTGGACAA
	2477	TGGGCGGAATAGATTGGGTGTCTT	AAGACACCCAATCTATTCCGCCCA
	2478	TAGAATTCGCCTCTTCTAGCCGCC	GGCGGCTAGAAGAGGCGAATTCTA
	2479	CATTACTTCCTGCAGATGCGATGC	GCATCGCATCTGCAGGAAGTAATG
	2480	GGAAATGCTAGCTGGGGTAATCGC	GCGATTACCCCAGCTAGCATTTCC
25	2481	GCCGCCACTTGCGAATCTACATCT	AGATGTAGATTCGCAAGTGGCGGC
	2482	ACAATAGCGGACAGCTCGCCAGAT	ATCTGGCGAGCTGTCCGCTATTGT
	2483	AGTTAGGCTCTCGGTGCGGTCCAT	ATGGACCGCACCGAGAGCCTAACT
	2484	TGGGCCTGAGAAGCGGTTAATAGG	CCTATTAACCGCTTCTCAGGCCCA
	2485	ACGCTCTGAGCGACGCCTATCGTA	TACGATAGGCGTCGCTCAGAGCGT
30	2486	CCTGGTGATCGTGTCCCAGACTCA	TGAGTCTGGGACACGATCACCAGG
	2487	GCGTGTCCATTCGCTTGAGGTTTC	GAAACCTCAAGCGAATGGACACGC
	2488	ATCCTGAACGGCGATGACCACCAC	GTGGTGGTCATCGCCGTTCAGGAT
	2489	TTACGTTTCTCACCGATCAACGCC	GGCGTTGATCGGTGAGAAACGTAA
	2490	GCCGTCTTGAGTGGCTAAAAGGCA	TGCCTTTTAGCCACTCAAGACGGC
35	2491	ATCTACGATGCGGCTCGAAGTGTT	AACACTTCGAGCCGCATCGTAGAT
	2492	AACCAAGACTCGTCCCCAAACGAA	TTCGTTTGGGGACGAGTCTTGGTT
	2493	AACTGCGGTGGTGGAGGCAGGTGC	GCACCTGCCTCCACCACCGCAGTT
	2494	TGCGATCTTCTCCACCTACAGCGC	GCGCTGTAGGTGGAGAAGATCGCA
	2495	AGGCGCTTAGAACCGTGAAGGCAG	CTGCCTTCACGGTTCTAAGCGCCT
40	2496	TGGAAAATTTTGGGAAACGCTGGA	TCCAGCGTTTCCCAAAATTTTCCA
	2497	CCAGCGCCGCACCTTCTCCAATAG	CTATTGGAGAAGGTGCGGCGCTGG

	2498	TAGACGGCTGGCGAATCTTACGGT	ACCGTAAGATTCGCCAGCCGTCTA
	2499	TACCATACAAGAGAACGAGCCGCA	TGCGGCTCGTTCTCTTGTATGGTA
	2500	GTAGCCGAGAGCAATTTCACCGC	GCGGTGAAAATTGCTCTCGGCTAC
	2501	GCAAACTCCCCTGCCCTTTAGCCT	AGGCTAAAGGGCAGGGGAGTTTGC
5	2502	ATCCCGCTGATAACCGCCAGGATA	TATCCTGGCGGTTATCAGCGGGAT
	2503	AGTCTCAGTTCGGCGCAACGGTAG	CTACCGTTGCGCCGAACTGAGACT
	2504	AACCTACAGTCGCCGCAATGCATT	AATGCATTGCGGCGACTGTAGGTT
	2505	ATACACGTTTCAGCCGGCAACAAT	ATTGTTGCCGGCTGAAACGTGTAT
	2506	ACGACGGGACGTGCCCTCGTTGAT	ATCAACGAGGGCACGTCCCGTCGT
10	2507	AAGTCCAAACTCGAATGGGGCAGT	ACTGCCCCATTCGAGTTTGGACTT
	2508	GATTTATTGGCGCGGTAACGACCT	AGGTCGTTACCGCGCCAATAAATC
	2509	TGTTTCAGAGGCTACCCTGCCAT	ATGGCAGGGTAGCCTCTGAAAACA
	2510	ACGGTCTCAGGGAAATGCGATCTC	GAGATCGCATTTCCCTGAGACCGT
	2511	GACTTGAAACCGCCTATGCCCACA	TGTGGGCATAGGCGGTTTCAAGTC
15	2512	CGATCGGTTGTGTGCTGTCTTACC	GGTAAGACAGCACAACCGATCG
	2513	AGTAGCACAATGCCTCATTTCCGC	GCGGAAATGAGGCATTGTGCTACT
	2514	CTCGCTATCTACGCGTCTCCGAAA	TTTCGGAGACGCGTAGATAGCGAG
	2515	AGCCCGTTACGGCATCTAGGATTC	GAATCCTAGATGCCGTAACGGGCT
	-2516	TCGCGATGGCGAGAGTTCAGAATA	TATTCTGAACTCTCGCCATCGCGA
20	2517	TTACAGGATTCCAAAACCCGCAAA	TTTGCGGGTTTTGGAATCCTGTAA
	2518	CGGTACCAACGCGCGGGCATATGA	TCATATGCCCGCGCGTTGGTACCG
	2519	TGCCAGTATTATCCGTGCCAGCCG	CGGCTGGCACGGATAATACTGGCA
	2520	ATTTCAGACCTCGGGACAACCTGG	CCAGGTTGTCCCGAGGTCTGAAAT
•	2521	GAAGTGCGCGTAACTTAGGGAGCC	GGCTCCCTAAGTTACGCGCACTTC
25	2522	TTGGCCAGGTCATCACTCTGCCAT	ATGGCAGAGTGATGACCTGGCCAA
	2523	ATCGGCCGGTATTAGCTGCCCTCC	GGAGGCAGCTAATACCGGCCGAT
	2524	CGCAGGTAAGGCCGAGCAATGTTT	AAACATTGCTCGGCCTTACCTGCG
	2525	TTGGGAACGTGCTAGGCGGCCCTC	GAGGGCCGCCTAGCACGTTCCCAA
	2526	CATCTCGGCACACTGGTGCTGTAT	ATACAGCACCAGTGTGCCGAGATG
30	2527	ACGCGTAAATCAACGACGTGGTCG	CGACCACGTCGTTGATTTACGCGT
	2528	CGTAGGTGGTAAATGTTGGCCCAG	CTGGGCCAACATTTACCACCTACG
	2529	TTCGAGCCAGAATAAAACGGTTGG	CCAACCGTTTTATTCTGGCTCGAA
	2530	AGAGATATTCGGCCTCGGTCGAGA	TCTCGACCGAGGCCGAATATCTCT
	2531	CGACAAAGTTTCTCGCGAGCAACT	AGTTGCTCGCGAGAAACTTTGTCG
35	2532	ATTGCCGCGTCTCGTATCAAAAGA	TCTTTTGATACGAGACGCGGCAAT
	2533	CGGAGAATGGATGCAGGTTCTTCG	CGAAGAACCTGCATCCATTCTCCG
	2534	TATAATCATTTGCGACTCGCCCCA	TGGGCGAGTCGCAAATGATTATA
	2535	AATTITCCCCGATTTGAAGAAGCG	CGCTTCTTCAAATCGGGGAAAATT
	2536	TCGCATACTTCGTCGGCGAGTATT	AATACTCGCCGACGAAGTATGCGA
40	2537	CGTGAGCCGTTCTCATCCAAGCGG	CCGCTTGGATGAGAACGGCTCACG
	2538	GCAGAATCGAATTGGGGTGGGTTT	AAACCCACCCCAATTCGATTCTGC

_			<del></del>
	2539	CTCTCGGTTTCTCAACCGAGCTCG	CGAGCTCGGTTGAGAAACCGAGAG
	2540	GACCAGTTAGTGCAATGGTTGGCG	CGCCAACCATTGCACTAACTGGTC
	2541	TTCTCGCACAGCTAGTCAGCCGAT	ATCGGCTGACTAGCTGTGCGAGAA
	2542	CCAAGTCTTGCGTGAGCGATCCTG	CAGGATCGCTCACGCAAGACTTGG
5	2543	GCGAAAGTGGCTCGTATTTCTCCA	TGGAGAAATACGAGCCACTTTCGC
	2544	CCTCGGGACTGTCCGACTGAAAAA	TTTTCAGTCGGACAGTCCCGAGG
	2545	AGGCGAGTGTACGGCTCATCCATG	CATGGATGAGCCGTACACTCGCCT
	2546	GCGGCTCTGCCTACGATATTCACA	TGTGAATATCGTAGGCAGAGCCGC
	2547	TGCACCTGTCTGTAGATTTGCGGT	ACCGCAAATCTACAGACAGGTGCA
10	2548	CATAAAGCACGGACGCGACTTGAT	ATCAAGTCGCGTCCGTGCTTTATG
	2549	CCCTCAACGTAGGGCGTGACTTTC	GAAAGTCACGCCCTACGTTGAGGG
	2550	GGGTCATCGTGCAGTTATGCCGTA	TACGGCATAACTGCACGATGACCC
	2551	CCCGGATAATCCTTTGTCCAGCCG	CGGCTGGACAAAGGATTATCCGGG
	2552	TCCGATAAGCGAACTCACATGGGT	ACCCATGTGAGTTCGCTTATCGGA
15	2553	CCTGCTGGTTCGGTCGTAAGCGAA	TTCGCTTACGACCGAACCAGCAGG
	2554	GAGGCACCAATCGGTCTGAAAATG	CATTTTCAGACCGATTGGTGCCTC
	2555	TACGAAAATGGTTGCGCCGGGTCT	AGACCCGGCGCAACCATTTTCGTA
	2556	AATTGCCGGAAGCAGTCAGAATCG	CGATTCTGACTGCTTCCGGCAATT
	2557	CCGAATCAGCCGTATTTGCTGGAA	TTCCAGCAAATACGGCTGATTCGG
20	2558	CCCGCTTATCTGTACTCGATCGCA	TGCGATCGAGTACAGATAAGCGGG
	2559	TTTTGGGGATCCCTATTAGGCGCA	TGCGCCTAATAGGGATCCCCAAAA
	2560	AGTGACAGCGCTCACCACGGTCCC	GGGACCGTGGTGAGCGCTGTCACT
	2561	CCATGAGTGTTTCGGGACATCGTA	TACGATGTCCCGAAACACTCATGG
	2562	GCCACATTCTGCTACCTCCGTGTT	AACACGGAGGTAGCAGAATGTGGC
25	2563	TCCTGTGCTTTGTGACGTGCTAGG	CCTAGCACGTCACAAAGCACAGGA
	2564	GACCGCATATACACCTGATGGGCC	GGCCCATCAGGTGTATATGCGGTC
	2565	GTAGGCCCGTCGTTAACCATCTCA	TGAGATGGTTAACGACGGGCCTAC
•	2566	CGGCTCGCGAAATGGAGTTTAGCG	CGCTAAACTCCATTTCGCGAGCCG
	2567	GCTGATCGGCTITTCACCGCTATA	TATAGCGGTGAAAAGCCGATCAGC
30	2568	TATCAAATCGTTGGCACGCGACTA	TAGTCGCGTGCCAACGATTTGATA
	2569	TTGGCGAGGATCCCTAGGCGTACT	AGTACGCCTAGGGATCCTCGCCAA
	2570	AAGTCCTGAGGCCGTTCGGTTTCT	AGAAACCGAACGGCCTCAGGACTT
	2571	ACTCCGGACATCTCGGCCAGAGAT	ATCTCTGGCCGAGATGTCCGGAGT
	2572	CCAAGGGAACACAGGATCGTAGA	TCTACGATCCTGTGTTCCCCTTGG
35	2573	GTGGCCTAAATCCGCCTTCTCAAC	GTTGAGAAGGCGGATTTAGGCCAC
	2574	CACTCCGTCTCGTCCATTAATGCG	CGCATTAATGGACGAGACGGAGTG
	2575	TCAAGAACCCAGTGCCGGTCAGCA	TGCTGACCGGCACTGGGTTCTTGA
	2576	GAATCAATTTTCCAGGGACGGGAC	GTCCCGTCCCTGGAAAATTGATTC
	2577	ATCGGTGTGCTGGAGCGCCAGAGT	ACTCTGGCGCTCCAGCACACCGAT
40	2578	GCCTCTCCTATGACGATGACCCAC	GTGGGTCATCGTCATAGGAGAGGC
	2579	TGGGCGCGCTTTTAAGACTACATC	GATGTAGTCTTAAAAGCGCGCCCA

	2580	CGTTGGGTACCGTTCTATCAACCG	CGGTTGATAGAACGGTACCCAACG
	2581	GCAGTGAGCTGGGTTCAATGCTTC	GAAGCATTGAACCCAGCTCACTGC
	2582	CATCATCCACACAGGCAGGTGTGT	ACACACCTGCCTGTGTGGATGATG
	2583	AGACAAAGGTCCCCATTGCGAAAT	ATTTCGCAATGGGGACCTTTGTCT
5	2584	ATACTCGTCGACGAGAAGCGGAAA	TTTCCGCTTCTCGTCGACGAGTAT
	2585	GCAGAATGTGTTGTCTTCGCAGCC	GGCTGCGAAGACAACACATTCTGC
	2586	CACCATGCCTTCATCTTGGCCTAG	CTAGGCCAAGATGAAGGCATGGTG
	2587	ACTCTTCAACGCCAGGTTAAGCCA	TGGCTTAACCTGGCGTTGAAGAGT
	2588	GCGACCTGCGGCGTGTGTATTCTC	GAGAATACACACGCCGCAGGTCGC
10	2589	TCGGTGTATGCACCCTTTCTCCAT	ATGGAGAAAGGGTGCATACACCGA
	2590	ACCGTCGAATCTTGCGGCCAATGT	ACATTGGCCGCAAGATTCGACGGT
	2591	TAATGCATGCTCCCGGCTCACGTT	AACGTGAGCCGGGAGCATGCATTA
	2592	TCTGTACACACCACGTCGTGCACA	TGTGCACGACGTGGTGTACAGA
	2593	CATGGGGTTGTCAGACGACACCTA	TAGGTGTCGTCTGACAACCCCATG
15	2594	AATCTGATGCTCGCTGTAGGACGG	CCGTCCTACAGCGAGCATCAGATT
	2595	TCGAAACCGCGGGAAAGGGTAAAA	TTTTACCCTTTCCCGCGGTTTCGA
	2596	TGGGGACGGGCGTCTAATCCTCC	GGAGGATTAGACGCCCGTCCCCA
	2597	AGGCATGCACCCATGCTGCCAGAG	CTCTGGCAGCATGGGTGCATGCCT
	2598	TCCCAATGGCCTGTCAAGCATAAA	TTTATGCTTGACAGGCCATTGGGA
20	2599	GAACCTGAGCCTTTGCTAGCACGA	TCGTGCTAGCAAAGGCTCAGGTTC
	2600	CGAATTGATAGCGTTACGGGCGAA	TTCGCCCGTAACGCTATCAATTCG
	2601	TTGCACGCGCGCGAACGACTATTC	GAATAGTCGTTCGCGCGCGTGCAA
	2602	TGCGGTGAAGCAGTCCAAGGTCAG	CTGACCTTGGACTGCTTCACCGCA
	2603	TGAGGACCATCCAATGGATCGGTT	AACCGATCCATTGGATGGTCCTCA
25	2604	TCGGTGATTGGTAATTTGGATCCG	CGGATCCAAATTACCAATCACCGA
	2605	GCGGCAGGTAGTTTGACTGGATG	CATCCAGTCAAACTACCTGCCCGC
	2606	CAAGCACAAGCCCATGAAATTTCA	TGAAATTTCATGGGCTTGTGCTTG
	2607	CGGTACAGCGATAGCCAAGGATA	TATCCTTGGCTATCCGCTGTACCG
	2608	CCATGCTCTTCGCTGCAGCATACT	AGTATGCTGCAGCGAAGAGCATGG
30	2609	CGCGGCAAAGATTAATTCCCGGCG	CGCCGGGAATTAATCTTTGCCGCG
	2610	GAAGACCCGTCCGGGTTTCCATAC	GTATGGAAACCCGGACGGGTCTTC
	2611	CTGGCAAGGAGGATGTGGCTCGTG	CACGAGCCACATCCTCCTTGCCAG
	2612	CTGTGCAGGGGGTGGCTCTGTTGA	TCAACAGAGCCACCCCTGCACAG
	2613	TTCAATAATGATCACGAGGCCCCA	TGGGGCCTCGTGATCATTATTGAA
35	2614	TGGTGATGCGAAGCCTTACCTTTG	CAAAGGTAAGGCTTCGCATCACCA
	2615	CTGCCACCATCTACGGCGCAGTCT	AGACTGCGCCGTAGATGGTGGCAG
	2616	TTTGCCCAGCTCTCGCAGAAGTTA	TAACTTCTGCGAGAGCTGGGCAAA
	2617	AATTCAGACGCCACATCGACGGTC	GACCGTCGATGTGGCGTCTGAATT
	2618	CCGTGGTCTGCCTCGATTACCTAC	GTAGGTAATCGAGGCAGACCACGG
40	2619	GGCGAGGAATTTCGGAACCTTATG	CATAAGGTTCCGAAATTCCTCGCC

2621 CCATAGACTAGCGCCAGAGTGCCC GGGCACTCTGGCGCTA 2622 TGTGGACCTAGAAAATTGCCAGCC GGCTGGCAATTTTCTAC 2623 GAATAATCATCGCGGTCCTCATGG CCATGAGGACCGCGAT 2624 GGGATTGGCTCTTGGTTGGAAGAA TTCTTCCAACCAAGAGC 2625 ATTGTGCTTCCTCGAACTGGGAAA TTCTCCAGCCAAGAGC 2626 TGCCCCACCCGCTAAGTCAATAAT ATTATTGACTTACGGGC 2627 TCAGGACCGACGGTGCACTTAGTG CACTAAGTGCACCGTC 2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACTGTG. 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGCCC 2631 CCGAGTGCCGAATCACAATGA TCATTGTGATCGCGACC 2632 GCACCAGTGCCCGATCACAATGA TCATTGTGATCGCGACC 2633 TGCAGGCTTCTCAACGGCTGGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGGATAC 2635 GGAAGTGCAACTTAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCACAATAC GTATCACGCGGGGATAC 2637 CCGTTAGTGGTCGACACTTCGAT ATGCAACGATCGACTG 2638 TCAGGCTACGACCTCACACTTCACT ATGCAACCGTCGACCC 2639 TATACGGGCCGAGCACTACA TGTAGTGCTGACCCC 2639 TATACGGGCCGAGCCCTCAGCACTACA TGTAGTGCTGAGCCC 2639 TATACGGGCCGAGGTCCGTTTCCCCGCTTGTCACCCCCCC GGCGGGGCTTTCACCTCGCCCCCCCCCC	GGTCCACA GATTATTC CCAATCCC AGCACAAT GTGGGGCA GGTCCTGA ACGGCTGG TCTTTAAG GAGCGGTA GCACTCGG
2623 GAATAATCATCGCGGTCCTCATGG CCATGAGGACCGCGAT 2624 GGGATTGGCTCTTGGTTGGAAGAA TTCTTCCAACCAAGAGG 2625 ATTGTGCTTCCTCGAACTGGGAAA TTCCCAGTTCGAGGAA 2626 TGCCCCACCCCGTAAGTCAATAAT ATTATTGACTTACGGGG 2627 TCAGGACCGACGGTGCACTTAGTG CACTAAGTGCACCGTC 2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACTGTG 2629 CTTAAAGAGGCGCGAAGCACACA TGTTGTGGTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGAC 2631 CCGAGTGCGCGAACCACACA TGTTTGTGATCGCGAC 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGC 2633 TGCAGGCTTCTCAACGGCTGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGCC 2639 TATACGGGCCGAGGTCCGTATTCC CGAATACGACCTGGCC 2640 CCAACGTGTGACGATTCGCTTTTCC CGAATACGACCTCGC 2641 CTGCTCAGCGGTGCTTTCACACACTTTCCGCCTTCGTCACCCCTCGCACACTACA TGTAGTGCTCGACCCTCGCCCCCCCCCC	GATTATTC CCAATCCC AGCACAAT ETGGGGCA EGTCCTGA ACGGCTGG TCTTTAAG EAGCGGTA ECACTCGG
2624 GGGATTGGCTCTTGGTTGGAAGAA TTCTTCCAACCAAGAGG 2625 ATTGTGCTTCCTCGAACTGGGAAA TTTCCCAGTTCGAGGAA 2626 TGCCCCACCCCGTAAGTCAATAAT ATTATTGACTTACGGGG 2627 TCAGGACCGACGGTGCACTTAGTG CACTAAGTGCACCGTC 2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACTGTG 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATTCGCGCC 2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCG 2632 GCACCAGTGCCCGATCACAAAACGTA TACGTTTTGATCGGGCAC 2633 TGCAGGCTTCTCAACGGCTGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATTCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTACAGCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGT AACCGAACTGTCGACC 2638 TCAGGCTACCGCCTCAGCACTACA TGTAGTGCTGAGCC 2639 TATACGGGCCGAGGTCCGTATTCC CGAATACGACCTCGGC 2640 CCAACGTGTGACGACGTACTCG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGTGTGAAACCCGCACGACTACA TGTCTTTCAACGACCCGC 2643 ATGGTTCAGAAGGTCCGTTTCACCA TGTGTGAAACCCGCAAGT 2644 GAGTGGACGATCGTTTCACCA TGTGTGAAACCCGCAACT 2645 TGGATTGAACGACCTCCGGTTTCACCA TGTGTGAAACCCGAACTTCC 2646 GAGTGGACCAATCCCGCCTCAA TTGAGGGCCGAAATG 2647 TTGGGAGCCATTCCGCCCTCAA TTGAGGGCCGACAATG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACCGGTAGTTTCG CCAAACCTACCGTTAACCACCGTTAACCG	CCAATCCC AGCACAAT ETGGGGCA EGTCCTGA ACGGCTGG TCTTTAAG EAGCGGTA ECACTCGG
2625 ATTGTGCTTCCTCGAACTGGGAAA TTTCCCAGTTCGAGGAA 2626 TGCCCCACCCCGTAAGTCAATAAT ATTATTGACTTACGGGC 2627 TCAGGACCGACGTGCACTTAGTG CACTAAGTGCACCGTC 2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACCTGTG 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCATTGCGCCC 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTTGTGATCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGAC 2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCC 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGC 2633 TGCAGGCTTCTCAACGGCTGGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGGAG CTCCCAGCCGTTGAGA 2635 GGAAGTGCAACTTAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGT AACCGAACTGTCGACC 2638 TCAGGCTACCGCCTCAGCACTACA TGTAGTGCTGAGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACCGCAAGT 2643 ATGGTTCAGAAGGTTCGTCGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCGCGTTTCACCA TGGTGAAACCGCAAGT 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTT 2646 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAAACTTC 2647 TTGGGAGCACGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTTACCGCCTGTG CACAGGCGGTAACCGT	AGCACAAT ETGGGGCA EGTCCTGA ACGGCTGG TCTTTAAG EAGCGGTA ECACTCGG
TCAGGACCGACGGTGCACTTAGTG  2627 TCAGGACCGACGGTGCACTTAGTG  2628 CCAGCCGTCACAGTGCAATTTCCG  2628 CCAGCCGTCACAGTGCAATTTCCG  2629 CTTAAAGAGGCGCGAAGCACAACA  2629 CTTAAAGAGGCGCGAAGCACAACA  10 2630 TACCGCTCGTCGCGATCACAATGA  2631 CCGAGTGCGCGAAGTGTCTATGTG  2632 GCACCAGTGCCCGATCACAAACGTA  2633 TGCAGGCTTCTCAACGGCTGGAG  2634 CTCCGTACGTATCCCGCGTGGAG  2635 GGAAGTGCACAATAC  2636 CGAACCGGCGATCACAAACGTA  2637 CCGTTAGTGCCAGTATAC  2638 TCAGGCTTCTCAACGGCTGGAG  2639 CGAACCGGCAGTCGATCGTTGCAT  2639 TATACGGGCCGAAGTTCGTTGCAT  2639 TATACGGGCCGAGGTCCGTATTCG  2640 CCAACGTGTCACAGACTACA  2641 CTGCTCAGCAGTCCGTTTCCCAATTCCGCAACCTTCGCACCGCGAAGT  2642 GGAGATTGACTTCACCAATTCCCAATTCCACCAACTTCCACCCGCCTTCGTCAACCCCCTCAGCACTTCCACACTTCCACCCCTTCGTCAACCCCCCCC	ETGGGGCA EGTCCTGA ACGGCTGG TCTTTAAG EAGCGGTA ECACTCGG
2627 TCAGGACCGACGGTGCACTTAGTG CACTAAGTGCACCGTC 2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACTGTG 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGACC 2631 CCGAGTGCGCGAAGTGTCTATGTG CACATGACACTTCGCC 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGCC 2633 TGCAGGCTTCTCAACGGCTGGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGACCC 2639 TATACCGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2639 TATACCGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCACCGC 2643 ATGGTTCAGAAGGTCCGTTTCACCA TGGTGAAACGCACCGC 2644 GAGTGGACCTTCGCGTTTCACCA TTGTGGAAACGCGAAGT 2645 TGGATTGGAACCAATCCCGCACAA TTGGAGGCCGAGAATG 2646 TGCTCTTGTGGTCACCCCCTCAA TTGAGGGCCGAGAATG 2647 TTGGGAGCACCGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CACAGGCGGTAACCGT 2648 CAACGCGAGCTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTTAACGGTAGTTTCG CGAAACTACCGGTTAACCGT	GGTCCTGA ACGGCTGG TCTTTAAG GAGCGGTA GCACTCGG
2628 CCAGCCGTCACAGTGCAATTTCCG CGGAAATTGCACTGTG, 2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGACC 2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCC 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGC, 2633 TGCAGGCTTCTCAACGGCTGGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGACC 2639 TATACGGGCCGAGGTCGATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGACCCGC 2643 ATGGTTCAGCAGTTCGTTGAAAGACA TGTCTTTCAAGCACCGC 2644 GAGTGGAGCATTCTCGCGTTTCACCA TGGTGAAACGCGAAGT 2645 TGGATTGAAAGACAATCCCGCACAAA TTGTGCGGGATTGGTT 2646 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCCGAGAATCG 2647 TTGGGAACCAATCCCGCACAAA TTGTGCGGGATTGGTT 2648 CAACGCGAGCACCTCCGCCTCAC CACAGGCGGAACCACACCTTC 2648 CAACGCGAACCATCCCGCACAA TTGTGCGGGATTGGTT 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCACCGCCACAA TTGTGCGGGATTGGTT 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCACACCGTTCCGCACAA TTGTGCGGGATTGGTTCCCACACACCCGCCACAA TTGTGCGGGATTGGTTCCCACACACCCGCCACAACCCCCCCC	ACGGCTGG TCTTTAAG BAGCGGTA BCACTCGG
2629 CTTAAAGAGGCGCGAAGCACAACA TGTTGTGCTTCGCGCC 2630 TACCGCTCGTCGCGATCACAATGA TCATTGTGATCGCGACG 2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCG 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGCG 2633 TGCAGGCTTCTCAACGGCTGGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATACC 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTCC 2644 GAGTGGAGCATTCTCGCGTTTCACCA TGGTGAAACGCGAAGT 2645 TGGATTGGAACCAATCCCGCACAA TTGTGGGGCCGAGAATCG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCACACTTCCGAGAGCACCTTCCGCACAACTTCTCGGCCCTCAA TTGTGCGGGATTGGTTCACCACTCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCGCACAACCTTCCCCCCACAACCTTCCCGCCCCCCACAA TTGTGCGGGATTGGTTCACCACCGCCGAACCCTTCCCCCCCACAACCTTCCCGCCCCCCCACAACCCCCCCC	TCTTTAAG GAGCGGTA GCACTCGG
TACCGCTCGTCGCGATCACAATGA  2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCG  2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGCACACACACACACACACACACACAC	SAGCGGTA SCACTCGG
2631 CCGAGTGCGCGAAGTGTCTATGTG CACATAGACACTTCGCG 2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGCA 2633 TGCAGGCTTCTCAACGGCTGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTGG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACCGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAA 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGAGCACCGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCCACGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCCACGT	SCACTCGG
2632 GCACCAGTGCCCGATCAAAACGTA TACGTTTTGATCGGGCA 2633 TGCAGGCTTCTCAACGGCTGGAG CTCCCAGCCGTTGAGA 2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAG 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTTAACGGTAGTTTCG CGAAACTACCGTTAGCC	
TGCAGGCTTCTCAACGGCTGGAG CTCCCAGCCGTTGAGA  2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC  2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGCTTTAAGTT  2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG  2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC  2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG  2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG  2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC  2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC  2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT  2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTCC  2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGATG  2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC  2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC  2647 TTGGGAGCACCGTTACCGCCTTGT CACAGGCGGTAACCGT  2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CTGGTGC
2634 CTCCGTACGTATCCCGCGTGATAC GTATCACGCGGGATAC 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCC	
15 2635 GGAAGTGCAACTTAAAGCCCCGCC GGCGGGCTTTAAGTT 2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTT 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCC	AGCCTGCA
2636 CGAACCGGCAGTCGATCGTTGCAT ATGCAACGATCGACTGG 2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAG 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTCG 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATGG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCCGCAGAACCGTTAGCCCGCAGAACCGTTAGCCCGCAGAACCGTTAGCCCGCAGAACCGTTAGCCCGCAGAACCTTCCGCAGAGCAACCGTTAGCCCGCTGTG CACAGGCGGTAACCGTTAGCCCGCAGAACCTTCCGCAGAGCACCGTTAGCCCGCCTGTG CACAGGCGGTAACCGTTAGCCCCGCAGAACCTACCGTTAGCCCGCCTGTG CACAGGCGGTAACCGTTAGCCCCGCAGAACTACCGTTAGCCCCGCAGAACTACCGTTAGCCCCCGCAGAACTACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCGCAGAACTACCGTTAGCCCCCGCAGAACTACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCTGTG CACAGGCGGTAACCGTTAGCCCTCAACGGTAGTTTCG CGAAACTACCGTTAGCCCCTGTG CACAGGCGGTAACCGTTAGCCCTCAACGGTAGTTTCG CGCCTGTG CACAGGCGGTAACCGTTAGCCCTCAACGGTAGTTTCG CGCCTGTG CACAGCGCGTAACCGTTAGCCCTCAACGGTAACCGTTAGCCCTCAACGCTAGCCTAACGGTAGTTTCG CGCCTGTG CACAGCGCGTAACCGTTAGCCCTCAACGCTAACGGTAGCTAACGGTAGCTACCGTTAGCCCTCAACCGTTAGCCCTCAACCGTTACCGCTAACGGTAGCTAACCGTTAGCCCTCAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTACCGCTAACCGTTAACGGTAACCAACC	GTACGGAG
2637 CCGTTAGTGGTCGACAGTTCGGTT AACCGAACTGTCGACC. 2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	GCACTTCC
2638 TCAGGCTACGCCCTCAGCACTACA TGTAGTGCTGAGGGCG 2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAG 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTCG 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATGG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCCGCCTTAGCCCGCACAA CGAACCTACCGTTAGCCCCGCACAA CGAACCTACCGTTAGCCCCGCACAA CGAACCTACCGTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCCTTAGCCCCCTTAGCCCCCTTAGCCCCCCTTAGCCCCCCTTAGCCCCCCTTAGCCCCCTTAGCCCCCCTTAGCCCCCCTTAGCCCCCCTTAGCCCCCTTAGCCCCCCTTAGCCCCCCCC	CCGGTTCG
2639 TATACGGGCCGAGGTCCGTATTCG CGAATACGGACCTCGG 2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAC 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	ACTAACGG
2640 CCAACGTGTGACGAAGGGCCATTG CAATGGCCCTTCGTCAG 2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTTCAAGCACCGG 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTCG 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATGG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGCCGCTAGCCGCCTTAGCCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCGCCTTAGCCCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCGCCCTTAGCCCCCCTAGCCCCCCCC	TAGCCTGA
2641 CTGCTCAGCGGTGCTTGAAAGACA TGTCTTCAAGCACCGC 2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CCCGTATA
2642 GGAGATTGACTTCGCGTTTCACCA TGGTGAAACGCGAAGT 2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC 2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 25 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CACGTTGG
2643 ATGGTTCAGAAGGTTCGTCGGGTT AACCCGACGAACCTTC  2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG  25 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTC  2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAC  2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT  2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	TGAGCAG
2644 GAGTGGAGCATTCTCGGCCCTCAA TTGAGGGCCGAGAATG 25 2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CAATCTCC
2645 TGGATTGGAACCAATCCCGCACAA TTGTGCGGGATTGGTTG 2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	rgaaccat
2646 TGCTCTTGTGGTCACTCGAGAGGA TCCTCTCGAGTGACCAG 2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CTCCACTC
2647 TTGGGAGCACGGTTACCGCCTGTG CACAGGCGGTAACCGT 2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CCAATCCA
2648 CAACGCGAGCTAACGGTAGTTTCG CGAAACTACCGTTAGC	CAAGAGCA
	GCTCCCAA
2640 AACCCTCACCCTCACCTTCACCT ACCTGAAGGTGAGCG	CGCGTTG
2049 AACGCTGAGCGCTCACCTTCACCT AGGTGAAGGTGAGCGC	TCAGCGTT
30 2650 CCGTCGTAGATCTGGAGGCTTCAA TTGAAGCCTCCAGATC	racgacgg
2651 GGATGGCATGGGCACACTGTAACC GGTTACAGTGTGCCCA	TGCCATCC
2652 TCGCTCGTAGATATCCTTCACGCC GGCGTGAAGGATATCT	ACGAGCGA
2653 GGAGCAATACCGCGTCCAAAACAC GTGTTTTGGACGCGGT	ATTGCTCC
2654 TTGTTCAGACTTAGGCGCTGCCCA TGGGCAGCGCCTAAGT	CTGAACAA
35 2655 CGGCGGTACTCTTTCCACTGTCCT AGGACAGTGGAAAGAG	TACCGCCG
2656 AAGACGATTGCCCACGTGCCAGAG CTCTGGCACGTGGGCA	ATOCTOTT
2657 AGGTGAGCGCAGGCATATTGCAGT ACTGCAATATGCCTGC	AICGICII
2658 CTCGGGCCTGTACAGCAAAGCCGT ACGGCTTTGCTGTACAG	
2659 TGCGCGCTAGTGCTGCCTATGATC GATCATAGGCAGCACTA	SCTCACCT
40 2660 CCATCCTTTGCCTTGAGGGTAAGG CCTTACCCTCAAGGCA	GCCCGAG
2661 AACAACAGCGTAAGACGGACAGGG CCCTGTCCGTCTTACG	GCCCGAG AGCGCGCA

_			
	2662	GAGGCGGTCGAGGCTCACAATATT	AATATTGTGAGCCTCGACCGCCTC
	2663	CGAGGTTAGACGCCTATGACCCAC	GTGGGTCATAGGCGTCTAACCTCG
	2664	AACTTGCTATACCGGGCGCAGCAA	TTGCTGCGCCCGGTATAGCAAGTT
	2665	CGCGGTGAATCGCATACACAGCGC	GCGCTGTGTATGCGATTCACCGCG
5	2666	CACCGAATCAAGCCATATGGCTCT	AGAGCCATATGGCTTGATTCGGTG
	2667	TTCACAGCTATCCTAGGCGCTGCC	GGCAGCGCCTAGGATAGCTGTGAA
	2668	AGAAGCGCGAAGTGTACCCCGCAT	ATGCGGGGTACACTTCGCGCTTCT
	2669	TGCATGGTATTTGCGTGCGATAGG	CCTATCGCACGCAAATACCATGCA
	2670	GGCCGGACCTATGTGAGATGGAAA	TTTCCATCTCACATAGGTCCGGCC
10	2671	TCAACCTGAGTCCTGATCCCAAGC	GCTTGGGATCAGGACTCAGGTTGA
	2672	TGCTTACCGTTCAGGGAGGCGTGT	ACACGCCTCCCTGAACGGTAAGCA
	2673	GGAGAGTTACGCGATGAGCCACCT	AGGTGGCTCATCGCGTAACTCTCC
	2674	CGGTATGCGGTGTACAGCTTTCGT	ACGAAAGCTGTACACCGCATACCG
	2675	GTAAGCCGGGTCTCGTGTCGCCGT	ACGGCGACACGAGACCCGGCTTAC
15	2676	GCGTAGTGCGAACGCCCCGACCTA	TAGGTCGGGGCGTTCGCACTACGC
	2677	TCCTCGCGGCTTACGTCAAATTCG	CGAATTTGACGTAAGCCGCGAGGA
	2678	CGACGTTCAAAGCGGGAGAGGAGG	CCTCCTCCCGCTTTGAACGTCG
	2679	CGAGGCACCCCGACATGTTGAGAT	ATCTCAACATGTCGGGGTGCCTCG
	2680	CTATTTCGTGCCGCGTCGGACAAG	CTTGTCCGACGCGCACGAAATAG
20	2681	GGCTGCTCAGTGACGTGTCAACTG	CAGTTGACACGTCACTGAGCAGCC
	2682	ATCACTCGTGCGTACCCGACCGTC	GACGGTCGGGTACGCACGAGTGAT
	2683	CGAGATGTCCTATACCGTGGCGAA	TTCGCCACGGTATAGGACATCTCG
	2684	TCACACCGAGCCCCATAAATGAAA	TTTCATTTATGGGGCTCGGTGTGA
	2685	AGCTACGTGTCTCGAGCAAAAGCG	CGCTTTTGCTCGAGACACGTAGCT
25	2686	TCAGGGCGAGTTTTTTCAGCGGCG	CGCCGCTGAAAAAACTCGCCCTGA
	2687	TTCGTTCTGTCTATTTTTGCCCCG	CGGGGCAAAAATAGACAGAACGAA
	2688	TGGTATGCCCAGGATCCAGCCTAC	GTAGGCTGGATCCTGGGCATACCA
	2689	TCTCAGTCGTTAGGCCAATGGCGG	CCGCCATTGGCCTAACGACTGAGA
	2690	AAAGATCACCGTGGAGCGATCGGC	GCCGATCGCTCCACGGTGATCTTT
30	2691	TAGCAGGACTTGCACTCGTGATGC	GCATCACGAGTGCAAGTCCTGCTA
	2692	TGCCCACGGTACCGTTCAAGGCTG	CAGCCTTGAACGGTACCGTGGGCA
	2693	TGAGGTGCGTCGCCCTAAGTAATG	CATTACTTAGGGCGACGCACCTCA
	2694	AGCAAGGGTTACAACCCGCAACCC	GGGTTGCGGGTTGTAACCCTTGCT
	2695	CACAACAGCCAGTATTCGCCACAA	TTGTGGCGAATACTGGCTGTTGTG
35	2696	GGCAACACCATACTCGACGAGCTC	GAGCTCGTCGAGTATGGTGTTGCC
	2,697	GGCTGGATTGACAATTTAGCCCCT	AGGGGCTAAATTGTCAATCCAGCC
	2698	CGTGAGAAATGCTACACGCGTCAG	CTGACGCGTGTAGCATTTCTCACG
	2699	CGCATCTGCCCCATTTTGTTCCTT	AAGGAACAAAATGGGGCAGATGCG
	2700	GTCGGCCTAGTCGGCAGAACGGTG	CACCGTTCTGCCGACTAGGCCGAC
40	2701	TCCCTCACCTTCCAAAAATGTGCT	AGCACATTTTTGGAAGGTGAGGGA
	2702	GGGCAAGAACATGAGAACAGACCG	CGGTCTGTTCTCATGTTCTTGCCC

_			
	2703	TCGTCCTGGTACGACTTGCGTAGA	TCTACGCAAGTCGTACCAGGACGA
	2704	TGGCGGTTGCATGTGATCAAG	CTTGATCATCACATGCAACCGCCA
	2705	CCTCGCGTGAGTAAAAACCGTCCG	CGGACGGTTTTTACTCACGCGAGG
	2706	ACTTCCGCCACAGAATGCGGCCAG	CTGGCCGCATTCTGTGGCGGAAGT
5	2707	GTGTAGAGCTTGGGTAGCCCCGTT	AACGGGGCTACCCAAGCTCTACAC
	2708	CGCAGCATCCGAGTTAACACACAT	ATGTGTGTTAACTCGGATGCTGCG
	2709	ATGAGCCTGGGATGATCCGCTGGT	ACCAGCGGATCATCCCAGGCTCAT
	2710	CCTGGCATAAGTGCCGACATGCTT	AAGCATGTCGGCACTTATGCCAGG
	2711	GCGCATGAAAAACTACGACGGACG	CGTCCGTCGTAGTTTTTCATGCGC
10	2712	AAAGATGGGTCGATGGGAGCGTCT	AGACGCTCCCATCGACCCATCTTT
	2713	ATCCTGGGCACGAGCGGATTTATC	GATAAATCCGCTCGTGCCCAGGAT
	2714	TCACCGCATTTGATAGTTACGCGA	TCGCGTAACTATCAAATGCGGTGA
ĺ	2715	TGGTGGAGCGGACTCTGGTGTTAT	ATAACACCAGAGTCCGCTCCACCA
	2716	CACAATGAAAAAACAATGGCCCCA	TGGGGCCATTGTTTTTTCATTGTG
15	2717	CCTTGCCGCGCTTGTGGTACCAAC	GTTGGTACCACAAGCGCGGCAAGG
	2718	CCGAGACCTTTGCCACACGAAAGA	TCTTTCGTGTGGCAAAGGTCTCGG
	2719	ACCGCGGTGTACACCTGAGCAGGC	GCCTGCTCAGGTGTACACCGCGGT
	2720	GTCGTACGCTTACCGCAGCGGAGA	TCTCCGCTGCGGTAAGCGTACGAC
	2721	TCGTAATTTGACCGACACACGCAG	CTGCGTGTGTCGGTCAAATTACGA
20	2722	CCTAGACGGATACCCTGAGCGGAA	TTCCGCTCAGGGTATCCGTCTAGG
	2723	AAGCGACAGCAGAGGTTCAGTCGC	GCGACTGAACCTCTGCTGTCGCTT
	2724	GCGTGGACGATATCACCTGGGCGT	ACGCCCAGGTGATATCGTCCACGC
	2725	GTCGGAGAGCCAGTGGTACGGCTT	AAGCCGTACCACTGGCTCTCCGAC
	2726	TATCCGCACGGTATAGCAGTTGCA	TGCAACTGCTATACCGTGCGGATA
25	2727	CATCAGTCGGGCTACCTTCAGCCT	AGGCTGAAGGTAGCCCGACTGATG
	2728	CGGATTAATGCCTTTCCTCGGAAT	ATTCCGAGGAAAGGCATTAATCCG
	2729	TTCGTCGTGCCAAGCTAATGCAAG	CTTGCATTAGCTTGGCACGACGAA
	2730	GGCCGAGACCACCAGTAACAGGTT	AACCTGTTACTGGTGGTCTCGGCC
	2731	CGCGCGGAAGCATTGAAGTTACTA	TAGTAACTTCAATGCTTCCGCGCG
30	2732	TCGGCTTACCGCTTCGTCTGACTT	AAGTCAGACGAAGCGGTAAGCCGA
	2733	GACTGACGTCAAGGCAAGCACAC	GTGTTGCTTGCCTTGACGTCAGTC
	2734	AGAGGAAGGAGGGCTGTGACAGA	TCTGTCACAGCCCCTCCTTCCTCT
	2735	TTCCAATGCGAGAGATGGCAGGCT	AGCCTGCCATCTCTCGCATTGGAA
	2736	AAATGGGGTGCTTCGAATATGTCG	CGACATATTCGAAGCACCCCATTT
35	2737	GCTGTCGGATTATTGCACGCCTGT	ACAGGCGTGCAATAATCCGACAGC
	2738	CCGACTTTGTTTATGTTGCTGGCG	CGCCAGCAACATAAACAAAGTCGG
	2739	GCTGCGATATAACCCGTCCCAGAA	TTCTGGGACGGGTTATATCGCAGC
	2740	TGAGCTGGGCGTCAACTCCGAAGA	TCTTCGGAGTTGACGCCCAGCTCA
	2741	CCCAAGCATCCTAAATCTCCCTCG	CGAGGGAGATTTAGGATGCTTGGG
40	2742	CGACAGCAATCCACATGCATTCTT	AAGAATGCATGTGGATTGCTGTCG
	2743	TGAATGGTCGGGAAACCAATGCAT	ATGCATTGGTTTCCCGACCATTCA
•			

	2744	CTTTGCATCGAGATGCGGGGTAGC	GCTACCCGCATCTCGATGCAAAG
	2745	TCCATTTCCTCCGCAACTCTCAGG	CCTGAGAGTTGCGGAGGAAATGGA
	2746	CCACTACGCCATCCTGACAACGAG	CTCGTTGTCAGGATGGCGTAGTGG
	2747	TAGTAAGGCCAATGTACGCCGTCC	GGACGGCGTACATTGGCCTTACTA
5	2748	GTCATGCATATGGGGCCTGTTTTC	GAAAACAGGCCCCATATGCATGAC
	2749	ACCGGTAGACGTTAGCGGGTTCAA	TTGAACCCGCTAACGTCTACCGGT
	2750	TTGGTTCAAACGGCCACACGTCTC	GAGACGTGTGGCCGTTTGAACCAA
	2751	GACACAAACTGCAAGGGAGGCATG	CATGCCTCCCTTGCAGTTTGTGTC
	2752	CTCGAGCGCTGTCATCATATCGGC	GCCGATATGATGACAGCGCTCGAG
10	2753	GCGGCTAAGGCACAAGTAGACGTG	CACGTCTACTTGTGCCTTAGCCGC
	2754	ACAGCCTAAATGGCGCAAGACCGA	TCGGTCTTGCGCCATTTAGGCTGT
	2755	CCGATGATGTAAGCCGTCGGCCCT	AGGGCCGACGGCTTACATCATCGG
v	2756	AGGAGCAAACAAACGCCAGTGACA	TGTCACTGGCGTTTGTTTGCTCCT
	2757	ACGAATTGGGTAGCCGGACTGAGA	TCTCAGTCCGGCTACCCAATTCGT
15	2758	CTGTTCCAGTTCGGCAAGTGCGGC	GCCGCACTTGCCGAACTGGAACAG
	2759	AGACAAGTCAGGAACGCGTTTCCG	CGGAAACGCGTTCCTGACTTGTCT
	2760	AGACGACGGCCAGATACGCTGCCA	TGGCAGCGTATCTGGCCGTCGTCT
	2761	AGGAAGCGCTTCTTCCGGTTCTTC	GAAGAACCGGAAGAAGCGCTTCCT
	2762	GATGGACGCAAACACAAGGCGATC	GATCGCCTTGTGTTTGCGTCCATC
20	2763	CGCATAGCAGTCTCCGCATCTTGG	CCAAGATGCGGAGACTGCTATGCG
	2764	TGGTTCCGGTGTGCAACAGATAAA	TTTATCTGTTGCACACCGGAACCA
	2765	CCGTATGCCACCTCCAGAACTCAA	TTGAGTTCTGGAGGTGGCATACGG
	2766	GTAAAGGAACCCCTCGGGAATCCT	AGGATTCCCGAGGGGTTCCTTTAC
	2767	GCCTGATGCTCGTTAAAATTGCGT	ACGCAATTTTAACGAGCATCAGGC
25	2768	TCGCACTTGGACCATGAGATCTGA	TCAGATCTCATGGTCCAAGTGCGA
	2769	TTCTCAGGCTGGGCAAGAGTCTGT	ACAGACTCTTGCCCAGCCTGAGAA
	2770	CGGACCTGGGGATGCTGGGATTAC	GTAATCCCAGCATCCCCAGGTCCG
	2771	TCGAGCCGATAGGGTTGGCATTGC	GCAATGCCAACCCTATCGGCTCGA
	2772	TACGTGTGTCCCACACACGTCGTA	TACGACGTGTGTGGGACACACGTA
30	2773	TGTGAAATTCGCGTTTCGCATCTT	AAGATGCGAAACGCGAATTTCACA
	2774	TTGCAATGCTCCAAAAAAACTGCC	GGCAGTTTTTTTGGAGCATTGCAA
	2775	TCTCATCATGGCTGTGGCTTTGAC	GTCAAAGCCACAGCCATGATGAGA
	2776	ATTACACCGCTTGGTTTGGAGTGG	CCACTCCAAACCAAGCGGTGTAAT
	2777	GCCGTGCAATGCACAGAGTTCAAG	CTTGAACTCTGTGCATTGCACGGC
35	2778	GAGATCAGACCGTGTCGGATGCTG	CAGCATCCGACACGGTCTGATCTC
	2779	CCACCTATCTTGATGCGACCTGGA	TCCAGGTCGCATCAAGATAGGTGG
	2780	CCGATCGCCGTTTATGTCTACGGC	GCCGTAGACATAAACGGCGATCGG
	2781	GAAAATCACGGTAAGGCACGTTCG	CGAACGTGCCTTACCGTGATTTTC
	2782	GATTCTCGCTTCCCAACGAGCATA	TATGCTCGTTGGGAAGCGAGAATC
40	2783	TGTGAAATGTGGCAGTCTCAGGGA	TCCCTGAGACTGCCACATTTCACA
	2784	CGATCCTGCGTGCCTCATCCAGGC	GCCTGGATGAGGCACGCAGGATCG

			<del></del>
	2785	CCCTCAAGTGGGCGAGGGTTTTCA	TGAAAACCCTCGCCCACTTGAGGG
	2786	TCGCCTCCGCCTCGTGTGTAGAAG	CTTCTACACACGAGGCGAGGCGA
	2787	TTCGCTTTCAGCTCATTGGAACGA	TCGTTCCAATGAGCTGAAAGCGAA
	2788	TGTAATCTGAACAAGCGGACCCCT	AGGGGTCCGCTTGTTCAGATTACA
5	2789	TGGAATCTTTCTTGAGCGCCGTGA	TCACGGCGCTCAAGAAAGATTCCA
	2790	GGCTTTCATCTTTAACCGCTCGGT	ACCGAGCGGTTAAAGATGAAAGCC
	2791	TGATCCGAGCCATTCCTAATCACC	GGTGATTAGGAATGGCTCGGATCA
	2792	TGGTAGGCGTGATGTCCTACGCAA	TTGCGTAGGACATCACGCCTACCA
	2793	AGGCATCGGTAAGAAGGCCCTATG	CATAGGGCCTTCTTACCGATGCCT
10	2794	CGCCGCGAGACGATCCTTATTATT	AATAATAAGGATCGTCTCGCGGCG
	2795	ACATGGACGAAATTACGCCCGTCA	TGACGGCGTAATTTCGTCCATGT
	2796	ACAGAAAGGTGGGGAGCCTAGCGT	ACGCTAGGCTCCCCACCTTTCTGT
	2797	AGGCTTGCGAACATGGGTAGTGAC	GTCACTACCCATGTTCGCAAGCCT
	2798	GCGTGGGCCTTGCTCCTGTTTAAC	GTTAAACAGGAGCAAGGCCCACGC
15	2799	GAATACAGAGCGTCCGATGTGCCC	GGGCACATCGGACGCTCTGTATTC
	. 2800	GCGACTCTGTAGGGAGCGCGATAT	ATATCGCGCTCCCTACAGAGTCGC
•	2801	GGTGCACTCATATGCGTCGCATCG	CGATGCGACGCATATGAGTGCACC
	2802	CTGTCCCACGGGGAAACCTTACTT	AAGTAAGGTTTCCCCGTGGGACAG
	2803	TGGCTTACTGTCGCAATCTAGGCC	GGCCTAGATTGCGACAGTAAGCCA
20	2804	GCACTCAGTTTCCGGTATCCCATG	CATGGGATACCGGAAACTGAGTGC
	2805	GTGAGGTTCACGTAAGGCACAGCG	CGCTGTGCCTTACGTGAACCTCAC
	2806	GTAACGCCTTTGTCCCCAGCGTAT	ATACGCTGGGGACAAAGGCGTTAC
	2807	GCATTGATATGGTCGGTCTCGCCT	AGGCGAGACCGACCATATCAATGC
	2808	GTGGGTTTAAGTGACAACGGACGC	GCGTCCGTTGTCACTTAAACCCAC
25	2809	CAAAACCCTGCCGAAGATGTTGGT	ACCAACATCTTCGGCAGGGTTTTG
	2810	TCCGAGGAGACTGAACCTGCTACC	GGTAGCAGGTTCAGTCTCCTCGGA
	2811	CGGGGAAGAACGGATTCGCTAAAT	ATTTAGCGAATCCGTTCTTCCCCG
	2812.	TGGTTAGCTTATGTCGGAGCCACC	GGTGGCTCCGACATAAGCTAACCA
	2813	ACGCGTCGATGAACTAAGGCTCGC	GCGAGCCTTAGTTCATCGACGCGT
30	2814	TTCTCCTGACGAGTACGCAGTGGG	CCCACTGCGTACTCGTCAGGAGAA
	2815	TCCGCGGTTGCCGGTTTGTTAGGA	TCCTAACAAACCGGCAACCGCGGA
	2816	TGGCGCATCTTTCAGGGGATGATG	CATCATCCCCTGAAAGATGCGCCA
	2817	TCTTTGGTCCTTGGTGTTTACGCG	CGCGTAAACACCAAGGACCAAAGA
	2818	GAGAACTCCCGCTACAAAGGAGCC	GGCTCCTTTGTAGCGGGAGTTCTC
35	2819	TTAACGTGGGAACCGTTGGTGAAT	ATTCACCAACGGTTCCCACGTTAA
	2820	GGGACACCATCCTTGGGTTTGTTA	TAACAAACCCAAGGATGGTGTCCC
	2821	CAACAAACCGCCTTGGGAAGTGAC	GTCACTTCCCAAGGCGGTTTGTTG
	2822	TTGAAGGCCACCGATACTGATCGC	GCGATCAGTATCGGTGGCCTTCAA
	2823	TCGTAATAGAACTGCGCCCAATGC	GCATTGGGCGCAGTTCTATTACGA
40	2824	GGCACGTTGCCCAAGTTGGATCCA	TGGATCCAACTTGGGCAACGTGCC
	2825	ACATAGCTTGGCCGGACACCCACC	GGTGGGTGTCCGGCCAAGCTATGT

<del></del>			
	2826	CTTGCCGCCTTGCGAGTGGCTAAA	TTTAGCCACTCGCAAGGCGGCAAG
	2827	AATGGCTCGCCAGATACCGCAGCC	GGCTGCGGTATCTGGCGAGCCATT
<u> </u>	2828	CAAAAGGCGTGTCCGAACTTTTCA	TGAAAAGTTCGGACACGCCTTTTG
	2829	CGTCCACTTAGGTGGAGATACGCC	GGCGTATCTCCACCTAAGTGGACG
5	2830	GAGCCTCTTCGTCCTGAAGACCGA	TCGGTCTTCAGGACGAAGAGGCTC
	2831	AACATCAAGCGGCAATCTCCCTTC	GAAGGGAGATTGCCGCTTGATGTT
	2832	CGTCCTGACATTATTAGCGCGTGC	GCACGCGCTAATAATGTCAGGACG
	2833	TGTGCAGACCCTACGACCTACGG	CCGTAGGTCGTTAGGGTCTGCACA
	2834	TTAGGTCGGCCTAGACCCTCCGTA	TACGGAGGGTCTAGGCCGACCTAA
10	2835	TCACATCGCTTAACTGAGCGCATT	AATGCGCTCAGTTAAGCGATGTGA
	2836	AGACCTTCCCACGCGAGATGCTAC	GTAGCATCTCGCGTGGGAAGGTCT
	2837	TTCTTGCCAAAATGTGTCCAACCA	TGGTTGGACACATTTTGGCAAGAA
	2838	CAGTTTCATTGCAGCGAAAGCAA	TTGCTTTCGCTGCAATGAAAACTG
F	2839	GTGCCGATCCCGAGACAAGTTCCG	CGGAACTTGTCTCGGGATCGGCAC
15	2840	CATCCGGCCTCAGTGATTCTTACC	GGTAAGAATCACTGAGGCCGGATG
	2841	TGCTGGAAGCCACAAACGTTACGT	ACGTAACGTTTGTGGCTTCCAGCA
	2842	GAACGGCCAGGGGACAACTATCGT	ACGATAGTTGTCCCCTGGCCGTTC .
	2843	TCATCTAGGTCGAAGCGCAAGACA	TGTCTTGCGCTTCGACCTAGATGA
	2844	TTTGGTTACCAGCACCCATGTTCC	GGAACATGGGTGCTGGTAACCAAA
20	2845	GACAACAGTCTGTCCGCCACATCC	GGATGTGGCGGACAGACTGTTGTC
	2846	GCCAACAGGAGATGCTTGCACCAT	ATGGTGCAAGCATCTCCTGTTGGC
	2847	CTAAGGACGCATTGACCCCTGAAC	GTTCAGGGGTCAATGCGTCCTTAG
	2848	GGTCGCGTAGTGAGTCAGAGGCGT	ACGCCTCTGACTCACTACGCGACC
	2849	TTACCTCATGAACCCTTCGCGGCG	CGCCGCGAAGGGTTCATGAGGTAA
25	2850	TATACAGCATCGTCGCCGGGCATA	TATGCCCGGCGACGATGCTGTATA
	2851	GCTTAGTGGCGTCTTCGTCGTAGG	CCTACGACGAAGACGCCACTAAGC
	2852	TGCACTCCGCAACCTTGTGAAATC	GATTTCACAAGGTTGCGGAGTGCA
	2853	AACCCGTCATGCCGACTCCATCTA	TAGATGGAGTCGGCATGACGGGTT
	2854	AGCACTAGTGGCGTGCGACTTTGC	GCAAAGTCGCACGCCACTAGTGCT
30	2855	TAAAAAGTGCCGCTAACCACGGAG	CTCCGTGGTTAGCGGCACTTTTTA
	2856	CGCGGAATATTTGTCGTCCGATTC	GAATCGGACGACAAATATTCCGCG
L	2857	TTCTGCTATGCGTATGGGGGCCCG	CGGGCCCCCATACGCATAGCAGAA
	2858	CGAACTACTGCGTCAGCCTCTCCC	GGGAGAGGCTGACGCAGTAGTTCG
L	2859	AGATGACGAATTAGCGGGGTTGGG	CCCAACCCGCTAATTCGTCATCT
35	2860	AATAACAGTGGCAATGAGCGGGAA	TTCCCGCTCATTGCCACTGTTATT
	2861	ATATGTTGATTCCCGTGCTGCACA	TGTGCAGCACGGGAATCAACATAT
	2862	AGAGTGGGCACCACCAGGCAGACA	TGTCTGCCTGGTGGTGCCCACTCT
	2863	AGGCCTGGGTTTCTGCGTCTTAGT	ACTAAGACGCAGAAACCCAGGCCT
	2864	CGGACGTGACAAACGGACATACCC	GGGTATGTCCGTTTGTCACGTCCG
40	2865	CAAGTGTTTCGGCCCAACTCTCGA	TCGAGAGTTGGGCCGAAACACTTG
j	2866	GAACCCTTATCGGGATAGGCCCAA	TTGGGCCTATCCCGATAAGGGTTC

			·
	2867	CAGGACGATACCAAGCAGAACGCC	GGCGTTCTGCTTGGTATCGTCCTG
	2868	GCGTCTTGTGATTCTGCCCTAACC	GGTTAGGGCAGAATCACAAGACGC
	2869	AAACAACCATCAATGTCGGGTCCA	TGGACCCGACATTGATGGTTGTTT
	2870	TGTAAAGACCAGTTGGCGGCTCTC	GAGAGCCGCCAACTGGTCTTTACA
5	2871	GCGTTTTGACTCGGTGGTCAGTCC	GGACTGACCACCGAGTCAAAACGC
	2872	TGTATGGAGGCACGGCAAAGTCTT	AAGACTTTGCCGTGCCTCCATACA
	2873	TTACCTAGGTTCCCGCTGACACGC	GCGTGTCAGCGGGAACCTAGGTAA
	2874	CGGCTCGTGGGAATCCTCTGAAGA	TCTTCAGAGGATTCCCACGAGCCG
	2875	CCGGCTCGGGCATTTCTTGGACCT	AGGTCCAAGAAATGCCCGAGCCGG
10	2876	CAACGATGGAATTGTCTCCTTGGG	CCCAAGGAGACAATTCCATCGTTG
	2877	CGGGCTATTATCGGGATTATGGGG	CCCCATAATCCCGATAATAGCCCG
	2878	ACGTACCTGAAGATGCAACGGCGG	CCGCCGTTGCATCTTCAGGTACGT
	2879	CATGGTGCAGCACGCACAAGTAAC	GTTACTTGTGCGTGCTGCACCATG
	2880	CGTCGATATGTCGGGCTATTGCCT	AGGCAATAGCCCGACATATCGACG
15	2881	AAATGCAGGGTTAAGAGGAGGCCC	GGGCCTCCTCTTAACCCTGCATTT
	2882	TGCAAGGACTGATTCTCCCGCTGT	ACAGCGGGAGAATCAGTCCTTGCA
	2883	GTTTCGGAACGCCGCAGAGTTCA	TGAACTCTGCGGCGTTCCGAAAAC
	2884	CCCTCGATGGTTCATTGGGAAGAC	GTCTTCCCAATGAACCATCGAGGG
	2885	CCTGTTCGCTCATAATGGTGGGGT	ACCCCACCATTATGAGCGAACAGG
20	2886	GAAAGAACGATCGCGGAATAGCTG	CAGCTATTCCGCGATCGTTCTTTC
	2887	TCCACCTGTGTGCCTTTATCCTCA	TGAGGATAAAGGCACACAGGTGGA
	2888	TCCTCCGTGAACCGCTGTAGCGCA	TGCGCTACAGCGGTTCACGGAGGA
	2889	TTGAGATTTTTACGGTTTCCCCGC	GCGGGGAAACCGTAAAAATCTCAA
	2890	CGATAGGACGTGGGCATGTCCCAG	CTGGGACATGCCCACGTCCTATCG
25	2891	CCCGAACTTTGAGATCCGAGAACA	TGTTCTCGGATCTCAAAGTTCGGG
	2892	TCACGCAGCTAGAGTCGCGTTACC	GGTAACGCGACTCTAGCTGCGTGA
	2893	AGATAACGCCCACTGACGACATGC	GCATGTCGTCAGTGGGCGTTATCT
	2894	ACGCTTAGAGCTCCGATGCCGAAT	ATTCGGCATCGGAGCTCTAAGCGT
	2895	GGGCGATAACTTAAATTGTGCCGC	GCGGCACAATTTAAGTTATCGCCC
30	2896	AGGACGTTCATGCGTCTCTTTGCA	TGCAAAGAGACGCATGAACGTCCT
	2897	CGGCTGGTAGAACTGTGCATCGTA	TACGATGCACAGTTCTACCAGCCG
	2898	TTCGAAATGTACTTCCCACGCGGA	TCCGCGTGGGAAGTACATTTCGAA
	2899	GCAGGTTGGCTGTCTTGTGGAGTC	GACTCCACAAGACAGCCAACCTGC
	2900	CGTTTGGTTGCTTCAAGAACCGGT	ACCGGTTCTTGAAGCAACCAAACG
35	2901	CATACTTGGTTGTTGTGCCCACGC	GCGTGGGCACAACAACCAAGTATG
	2902	GGGGTCGGCTGAAGTGTTTTATCC	GGATAAAACACTTCAGCCGACCCC
	2903	GTGACGGTTGATTAACGACCGTGG	CCACGGTCGTTAATCAACCGTCAC
	2904	CTTATGGCAGCGCCAGGGGCACTC	GAGTGCCCCTGGCGCTGCCATAAG
	2905	GTTAGGGGACCCACCTCGTTTGAT	ATCAAACGAGGTGGGTCCCCTAAC
40	2906	CAATATAAATGCCGCGCATCGAGT	ACTCGATGCGCGGCATTTATATTG
	2907	TTCTTCATCAGCAGTCCCCGAGAA	TTCTCGGGGACTGCTGATGAAGAA

2908   AGTITECGTICCATIGATGCATITI	-			
2910   ACTTGGCCGGACGACAGCAAAGAC   GTCTTTGCTGTCCGGCCAAGT     2911   CACCGCGGTAGATGTATCCTTCC   GGAAGGGATACATCTACCGCGGTG     2912   GTTAGCTTTAGCTCGGCACGCCTG   CAGGCGTGCCGAGCTAAACCTACC     2913   GCGCATAAGAAGGTCCGCTAAAGC   GCTTTAGCGGACTTCTTATGGGC     2914   ACATCATCACGCCTGGCTGACCA   TGGTCACGCCAGGCTGATGATGT     2915   CCGGGGAAGTTTGGTGTGATTAGA   TCTAATCACACCAAACTTCGCCGG     2916   TGCACCGCCAGATTTGGTGTGATTAGA   TCTAATCACACCAAACTTCACCGGC     2917   ACATGTGAAGTGAGTC   GACTCAGCACAACTTCACATGT     2918   CCTCTGGAGGGGATTAGCCACGCT   AGCGTGGCATATCCCTCCAGAGG     2919   CAATAGCCATGTCAACGT   TTGGACGGCACTCACTTCACATGT     2920   ACCCATGGTTCAACGTCTTTTCC   GCAAAGAACGTTATGC     2921   AATCTGGTCTTGGCAACGT   CGAAAGAACGTTGGACATGGTTATGC     2922   AATCTGGTCTTGGCAACGT   CGAAAGAACGTTGGAACCAGGGT     2923   AATCTGGTTTGGCATCCTCCAAA   TTGGACGGACTCACCTTCAATGCCCCC     2924   CGGGTATTCGAACGTTCTTTCC   CGAAAGAACCTTGGAACCAGAACACT     2925   AGTGCAACAGACACACACAGAGGAC     2926   CGGGTATTCGACCCCC   CGGGTCGACTCGAACCAGAACACC     2926   CGCGACACAGAGCCTTGGTCACC   CGGGTCGACTCGAACCAGAACACT     2927   TGCTCACGTACCACCACCACGAGGAC   CTCCTGTGTGTTGCAATACCCC     2928   AGTCCACACCTCGAACGACACACCC     2929   TGCTCACGTACCACGAACGCC   CGCCTGTCGTGTCGTAGCCACC     2929   CGCCCGACCTGGACCACAGACGC   CTCCAGGTTCCTCGTTAGCCACCC     2929   CGCCCGACCTGGACCACAGACGC   CTCCAGGTTCCTGGTAGCCACCCCCC     2920   GCCTAAAGGCCTTCGAACGACACACC     2921   TGTCACGTACCACAGAACACACCCCCCCC   CGCCTGTCGTTCGAGGTGGCGC     2922   CACCCGTGGCCTTAACACAAAACC   CTCCAGGTACCAAACCACACCCCCCCCCCCCCCCCCCCC	į	2908	AGTTGCGTCCCTTGATGGCATTTT	AAAATGCCATCAAGGGACGCAACT
2911		2909	CCGACTTTCGTCCACGATTCCTCT	AGAGGAATCGTGGACGAAAGTCGG
5 2912 GTTAGCTTTAGCTCGGCACGCCTG CAGGCGTGCCGAGCTAAAGCTAAC 2913 GCGCATAAGAAGGTCCGCTAAAGC 2914 ACATCATCACGCCCTGCCGTGACCA 2915 CCGGCGAAGTTTGGTGTGTATTAGA 2915 CCGGCGAAGTTTGGTGTGATTAGA 2916 TGCACCGCCAGGTGACCA 2917 ACATGTGAAGTGAGTGCCGTCAA 2918 TGCACCGCCAGATTGTGCTCGAGTC 2918 CCTCTGGAGGGGAATTAGCCACGCT 2919 CATTAGCCATGTCACTGCACGCT 2919 CATTAGCCATGTCACTGCACGCT 2919 CATTAGCCATGTCACTGCACGCT 2919 CATTAGCCATGTCACTGCACACGG 2919 CATTAGCCATGTCACTGCACACGG 2919 CATTAGCCATGTCACTGCACACGG 2919 CATTAGCCATGTCTCACAA 2920 ACCCATGGTTCCACACGTTCTTTCC 2921 AATCTGGTCTTGCGCAACGG 2921 CACCATGGTTCCACACGTTCTTTCC 2922 GTATACCGGTGCAACGTCTCTCAAA 2923 AGTGTTCGGCTACTCCACAA 2924 CGGGTATTCCACACGTCTCCACAA 2924 CGGGTATTCCACACGACCCG 2924 CGGGTATTCGACCACGC 2924 CGGGTATTCGACCACCACGACCACACCACACCACACCAC		2910	ACTTGGCCGGACGACAGCAAAGAC	GTCTTTGCTGTCGTCCGGCCAAGT
2913 GCGCATAAGAAGGTCCGCTAAAGC GCTTTAGCGGACCTTCTTATGCGC 2914 ACATCATCACGCCTGGCGTGACCA TGGTCACGCCAGGCGTGATGATGT 2915 CCGGCGAAGTTTGGTGTGAATTAGA TCTAATCACACCAAACTTCGCCCGG 2916 TGCACCGCCAGATGTGCTCAGTC GACTCAGCACAATCTGGCGGTGCACA 2917 ACATGTGAAGTGAGTGCCTCAA TTGGACGGCACTACTTCACATGT 2918 CCTCTGGAGGGGATTAGCCACGCT ACCGTGCCAATCTGGCGGTGCA 2919 CAATAGCCATGTCCATGCCAACGG CGTTGCCAGTGAACCACATCTGCCATTGG 2920 ACCCATGGTTCCACGTTCTTTCG CGAAAGAACGTTGAACCACGGCACTACACTGGCATTGCACTGGCAACGG CGTTGCCAGTGAACCACAGGCACTACTGGCAACGG CGTTGCCAGTGAACCACAGACCACGATT 2921 AATCTGGTCTCAACGTTCTTTCG CGAAAGAACAGTGGCAATTCCCCTCCAAA TTTGGAGGATGCCAAGACCACGAGTT 2922 GTATACCGGTGCATGCTGAAGCAA TTTGGAGGATGCCAAGACCACGAATT 2923 AGTGTTCTGGTTCGACGTCAAACACCACGACACACGAACCACGAACCACGAACCACGAACCACGAACCACGAACCACGAACCACGAACCACC		2911	CACCGCGGTAGATGTATCCCTTCC	GGAAGGGATACATCTACCGCGGTG
2914 ACATCATCACGCCTGGCGTGACCA 2915 CCGGCGAAGTTTGGTTGATTAGA 2916 TGCACCGCCAGATTGTGCTGAGTC 2916 TGCACCGCCAGATTGTGCTGAGTC 2917 ACATGTGAAGTGCCGTCCAA 2917 ACATGTGAAGTGCCGTCCAA 2918 CCTCTGGAGGGGATTAGCCAGCCCAAACTTCGCCGG 2919 CAATAGCCATGTCACTGGCACGCT 2919 CAATAGCCATGTCATTGCCAGGCT 2920 ACCCATGGTTCAACGTTCTTTCG 2920 ACCCATGGTTCAACGTTCTTTCG 2921 AATCTGGTCTTGGCATCCTCAAA 2921 AATCTGGTCTTGGCATCCTCAAA 2922 GTATACCGGTGCATGTCACAAA 2923 AGTGTTCTGGATGCAGCACG 2923 AGTGTTCTGGATGCAGCACG 2924 CGGGTATTCGACTCGAAAA 2925 AGTGCAACAACACACACAGAGGAC 2925 AGTGCAACAACACACACACAGAGGAC 2926 TGCACCTATAGTTTGGTGCCGGT 2927 TGCTCAAGACACACACAGAGGAC 2928 AGTCCACACCACAGAGACAC 2928 AGTCCACACCACAGAGGAC 2929 CGCGGACCTGAACCACACACACACACACACACACACACAC	5	2912	GTTAGCTTTAGCTCGGCACGCCTG	CAGGCGTGCCGAGCTAAAGCTAAC
2915 CCGGCGAAGTTTGGTGTGATTAGA 2916 TGCACCGCCAGATTGTGCTGAGTC 2917 ACATGTGAAGTGCGTGCAA 110 2917 ACATGTGAAGTGAGTGCCGTCAA 116GACGGCACAATCTGGCGGTGCA 2919 CATAGCCATGTCACTGCACGGT 2919 CATAGCCATGTCACTGGCACGGT 2919 CATAGCCATGTCACTGGCACGG 2919 CATAGCCATGTCACTGGCACGG 2919 CATAGCCATGTCACTGGCACGG 2910 ACCCATGGTCACAGGTCTCTCCAAA 1117GGAGGATGACATGGAACCAGGT 2921 AATCTGGTCTTGGCATCCTCCAAA 1117GGAGGATGCCAAGACCAGGT 2922 GTATACCGGTGCATGCTGAAGCAA 1117GGAGGATGCCACGGAACCAGGATT 15 2922 GTATACCGGTGCATGCTGAAGCAA 1117GCTTCAGCATGCACAGACCACGAACCACGATT 2924 CGGGTATTCGACACACACACGAGGAC 2925 AGTGCAACAACACACGAGGAC 2926 AGTGCAACAACACACGAGGAC 2926 AGTGCAACAGAGCACTTGGTCACG 2927 TGCTCACGTACCAAGAGCAC 2928 AGTCCACCAAGAGCACTCGAG 2928 AGTCCACCATAGTTTGGTGCCGGTG 2929 CGCCGACCTAAGACACACGAGGAC 2929 CGCCGACCTGGTCACGACCACAACACTATAGGTGGACC 2929 CGCCGACCTGGTCAAGACACACGAGCC 2929 CGCCGACCTGGTCAAGACACACGAGCC 2920 CGCCGACCTGGTCAAGACACACGAGCC 2921 TGTCCACGTACCAAGGACACTCGAG 2922 CAACCGTTGGTCACGACACACGACGACAACCACTAAGGCCC 2923 CGCCGACCTGGTCAAAGACGCCT 2929 CGCCGACCTGGTTCACGACACACGACGACCAAACCATAAGGTGGAC 2929 CGCCGACCTGGTCAAACAACACT 2920 CGCCGACCTGGTCAAACAACACT 2921 TGTGCGTGCTTATGTTCCGGTCC 2921 CAACCGTTGGCCGTACCAAACACAC 2922 CAACCGTTGGCCGTACCAAACACAC 2923 CGACGAACCAACACACACACACACACACGATC 2923 CGACAACCATTCGCC 2924 CGCGCACCAAACACACACACACACACACACACACACACA		2913	GCGCATAAGAAGGTCCGCTAAAGC	GCTTTAGCGGACCTTCTTATGCGC
2916 TGCACCGCAGATTGTGCTGAGTC 2917 ACATGTGAAGTGAGTGCGTCCAA 2918 CCTCTGGAGGGGATTAGCCAGGCT 2919 CAATAGCCATGTCAATGGCAGGCT 2919 CACTAGGCATGTCCATGGCAACGC 2920 ACCCATGGTTCCACCGTTTTCC 2920 ACCCATGGTTCCACCGTTTTCC 2921 AATCTGGTTCCACCGTTTTCC 2922 GTATACCGGTGCATGCCTCCAAA 1TTGGACGACATGCACCAGGCT 2921 AATCTGGTTCCACCGTTTTTCC 2922 GTATACCGGTGCATGCTCTCCAAA 1TTGGACGACACCAGGACTAGCTAGGGT 2923 AGTGTTCTGGCATCCTCCAAA 1TTGGACGATGCACCAGGATTC 2924 CGGGTATTCGACTCGCAAAA 2925 AGTGCAACACACACACGAGGAC 2926 TGCACCTATAGTTTGGTCACC 2926 AGTGCAACACACACACGAGGAC 2927 TGCTCACGTTCGCACCC 2928 AGTCCACACCACCAGACGCC 2928 AGTCCACCCTCGAACCACCACGACGCC 2929 CGCCGACCTGGACCACCACCACCACCACCACCACCACCACCACCACCAC		2914	ACATCATCACGCCTGGCGTGACCA	TGGTCACGCCAGGCGTGATGATGT
10 2917 ACATGTGAAGTGAGTGCCGTCCAA TTGGACGGCACTCACTTCACATGT 2918 CCTCTGGAGGGGATTAGCCACGCT AGCGTGGCTAATCCCCTCCAGAGG 2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAAAACGTTGGAACCATGGGT 2921 AATCTGGTTTGCAACGTTCTTTCG CGAAAAAACGTTGGAACCAGAGTT 15 2922 GTATACCGGTGCATGCTCCCAAA TTGCTTCAGCATGCACCAGATT 2924 CGGGTATTCGACCACGACCCC CGGGTCGACTCGAAACACT 2925 AGTGCAACACACACACGAGGAC GTCCTCCAGAACACCAGAACACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACCATAAGCTC 2927 TGCTCACGTACCAGGACCC CGGCTCGACCCAGACCACT 2928 AGTCAACACACACACACACGAGCC CCGCTGTCTGTGCACT 2928 AGTCAACACACACACACACGACGAC CCCCTGTTCGTACCATACCCC 2928 AGTCAACACACACACACACCACGACCCC CGCCTCTGTGCACT 2929 CGCCCACCTCTCAAACACACCACCCCCCCCTCGTACCTACC		2915	CCGGCGAAGTTTGGTGTGATTAGA	TCTAATCACACCAAACTTCGCCGG
2918 CCTCTGGAGGGGATTAGCCACGCT AGCGTGCTAATCCCCTCCAGAGG 2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCAGATT 2923 AGTGTTCTGGATTCGACCCG CGGGTCGACTCGAACCAGACCAG		2916	TGCACCGCCAGATTGTGCTGAGTC	GACTCAGCACAATCTGGCGGTGCA
2919 CAATAGCCATGTCACTGGCAACGG CCGTTGCCAGTGACATGGCTATTG 2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 15 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCAGATAC 2923 AGTGTTCTGGTTCGAGTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACCACCACCAGAGCAC 2925 AGTGCAACACACACACACAGAGCAC GTCCTCGTGTGTGCAATACCCG 2926 TGCAACACACACACACACCACGAGCAC GTCCTCGTGTGTCGAATACCCC 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGCCACAAACTATAGGTGCA 2928 AGTCCACACCTCGAACGACGACG CGCCTGTGTTCGAGGACAC 2929 CGCCGACCTGGTCAAAGACGCG CGCCTGTCGTTCGAGGTGGACCA 2929 CGCCGACCTGGTCAAAGAGGCGTA TAGCGCTCTTTGACCAGGTGGCCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACACGAC	10	2917	ACATGTGAAGTGAGTGCCGTCCAA	TTGGACGGCACTCACTTCACATGT
2920 ACCCATGGTTCCAACGTTCTTTCG CGAAAGAACGTTGGAACCATGGGT 2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 15 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCAGATAC 2923 AGTGTTCTGGTTCGAGTCGAACCAC GGGGTCGACCCAGACCAGA		2918	CCTCTGGAGGGGATTAGCCACGCT	AGCGTGGCTAATCCCCTCCAGAGG
2921 AATCTGGTCTTGGCATCCTCCAAA TTTGGAGGATGCCAAGACCAGATT 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCGGTATAC 2923 AGTGTTCTGGTTCGAGTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACCACACAGAGGAC GTCCTCCTGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGACTATACCCG 2926 TGCACCTATAGTTTGGTCACG CGTGACCAAACCACAACCATTGCACT 2927 TGCTCACGTACCAGGACCACCTCGAC CTCGACGTACCTAGGTGCA 2928 AGTCCACACCTCGAACGACACCCG CGCCTGTCGTACGTACGGAC 2929 CGCCGACCTGGTCAAAGAGCGCT CGCCTTGTGCAGGTACGACA 2929 CGCCGACCTGGTCAAAGAGCGCT TGCGACTTCGAGGTGGAGCA 2920 CGCCGACCTGGTCAAAGAGCGCT TGGGACTATGACGGACC 2931 TGTGCGTGCTTATGTTCCGAT TCGGAACAACAGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCT GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTACCAACAAAAATC GATTTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATCCCTGGAGGCTGCTTACTCC 2935 GATGGTTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACACCAAT ATTGGTCTTGGCGAAAACACCATC 2937 TAAATAGGCGAAACCAAT ATTGGTCTTGGCGAAAACACCATC 2938 TCAAGACCCGCAATGTGTCATGT ACATGAACACATTTCGCCTATTTTA 2938 TCAAGACCCGCAATGTTCATGT ACATGAACACATTTGCCGTATTTTA 2938 TCAAGACCCGCAATGTTCATGT ACATGAACACATTTGCCGTATTTTA 2939 CGGCTTGGTGAGCTTCTTGCACAA TTGTGCAAACACATTTGCCGTATTTTA 2939 CGGCTTGGTAGACTTTTTGCACAAA 2940 CAGGCGTAAACCTGAACCAAACCG CCGTTTGGTTCAGGTTTTAGCCTAGCTT 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACACCTTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACCG CCGTTTGGTTCAGGACACAGATTCGCCTGACGAACCGTTCTGCCGAATATCACGCG CGCTGAAACCTTAATCGGCGCGCAAACCGTTTAATCGGACCAAACCGTTAATCCAGCCGC 2941 GCCGATCTGTGCTGAGGTTCATCA TACAGGTGGTTAATCGGACACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACACAACCGGC 2944 TGACATACAGATTTTGTGTGGCCC GGGGCCACACAAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGAGTCT ACATCGTGAATATCACGCGCGCAAAC 2946 TTTTACCTGGCCATTTGGTGAGCTC GAGCTCACCAATTGGCCAGAACAC 2946 TTTTACCTGGCCATTTGGTGAGCTC GAGCTCACCAATTGGCCAGCAACAC 2946 TTTTACCTGGCCATTTGGTGAGCTC GAGCTCCACCCTTGATTGAGTAAAC		2919	CAATAGCCATGTCACTGGCAACGG	CCGTTGCCAGTGACATGGCTATTG
15 2922 GTATACCGGTGCATGCTGAAGCAA TTGCTTCAGCATGCACCGGTATAC 2923 AGTGTTCTGGTTCGAGTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACACACACGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTTCGAGGTACGTAGGCA 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTAAAGAAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACAATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAAATC GATTTTTGTTACAGCCCACA 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTACGC 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGGTCCTTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTTCTCCTAGCTTG 2937 TAAATAGGCGAAACCATTCGTGGC 2938 TCAAGACCCGCAAATGGTCCATC GTGGGCAATTCTTCGCCTATTTA 2938 TCAAGACCCGCAAATGGTTCATGT ACATGAACACATTCGCCTATTTA 2938 TCAAGACCCGCAATTGTTCACAA TTGTGCCAAAGAGTCTACCCTGC 2940 CAGGCGTAAACCTTTGCACAA TTGTGCAAAGAGTCTACCCCGC 2941 GCCGATCTGTGCCAAGGTTCATCA TGATGAACCACTTGCCCTAGCCCGC 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCTGTATATACGCCTG 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGGCCGCAACGGTTTTGCACAGACCATTTTGTTCACGCCGCCGC 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACACCGTAAACCCACAAACGGTTTAATCGTGCAAGACCAACACAATTCTGTTCACGCCGCCAACCAA		2920	ACCCATGGTTCCAACGTTCTTTCG	CGAAAGAACGTTGGAACCATGGGT
2923 AGTGTTCTGGTTCGACTCGACCCG CGGGTCGACTCGAACCAGAACACT 2924 CGGGTATTCGACACACACAGAGAC GTCCTCGTGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACAGCGC CGCCTGTCGTTCGAGGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTGTTTTCCGA TCGGAAAACCACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTAACAAAAATC CCAATTCCTGGAGGCTGCCTACGC 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTTCGCTAGCTTACG 2937 TAAATAGGCGAAACCGTTCGTGGC GCACAGAATTTTTCGCTAGCTTTTTTTTTT		2921	AATCTGGTCTTGGCATCCTCCAAA	TTTGGAGGATGCCAAGACCAGATT
2924 CGGGTATTCGACACACAGAGGAC GTCCTCGTGTGTCGAATACCCG 2925 AGTGCAACAGAGCGCTTGGTCACG CGTGACCAAGCGCTCTGTTGCACT 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTGAGCA 2928 AGTCCACACCTCGAACGACGACGCG CGCCTGTCGTTCGAGGTGGACCT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCACACACACACCACAC	15	2922	GTATACCGGTGCATGCTGAAGCAA	TTGCTTCAGCATGCACCGGTATAC
2925 AGTGCAACAGAGCGCTTGGTCACG 2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACCTGAGCACCAAACTATAGGTGCA 2928 AGTCCACACCTCGAACGACAGCGC CGCCTGTCGTTCGAGGTGGAGCA 2929 CGCCGACCTGGTCAAAGAGCGCTA 2929 CGCCGACCTGGTCAAAGAGCGCTA 2930 GCCTAAGGGCCTGTCGTTTTCCGA 2931 TGTGCGTGCTTATGTTCCGGTCTC 2932 CAACCGTTGGCCGTAACAAAAATC 2933 CGAGAATCAAGGCGTACCATCTCG 2934 GCGTAGGCAGCCTCCAGGGAACATAAGCACGCCACA 2935 GATGGTGTTTTCGCCAAGACCAAT 2936 CAAGCTAGGACCACAT 2937 TAAATAGGCGAAACCAAT 2938 TCAAGACCCGCAATGTGTTCATGT 2939 GCGCTGGTAGACAACCATT 2939 GCGCTGGTGTTTCGTGCC 2940 CAGGCGTAGACCTTCTGCCCACGCACAACACACTTCGCCACGCCCTTGACCCCCCCC		2923	AGTGTTCTGGTTCGAGTCGACCCG	CGGGTCGACTCGAACCAGAACACT
2926 TGCACCTATAGTTTGGTGCCGGTG CACCGGCACCAAACTATAGGTGCA 2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACCTGAGCA 2928 AGTCCACACCTCGAACGACGACGCG CGCCTGTCGTTCGAGGTGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGACCACACACACCACCACACACCGCCTTAGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACACACACACACACACACACACA		2924	CGGGTATTCGACACACACGAGGAC	GTCCTCGTGTGTGTCGAATACCCG
2927 TGCTCACGTACCAGGACACTCGAG CTCGAGTGTCCTGGTACGTAGCA 2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGTGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTACGGCCAACAGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATCTGTCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGCTTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTTGTCCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTCAGACACACGCCGC 2941 GCCGATCTGTGCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2942 GATATCGCGTCGCAATATCACCA TGATGAACACTCAGCACAGATCGGC 2943 CCCTGCACGATTAACCCACCGC GGGGCACACACAATCTGCAGCACAGATCGGC 2944 TGACATACAGATTTGTGTCCCC GGGGCCACACAAATCTGTATCACGCG 2945 GTTTGCGGCCGGTATTCACGATGT ACATGGAACACAAATCTGTATGTCA 2946 TTTTACCTGGCCATTTGGTGAGCTC GAGCTCACCAAATGGCCAGATAAAC 2946 TTTTACCTGGCCATTTGGTGAGCCC CGCTCCCCCCCTGATTAAACACAATCGAACAACACAAC		2925	AGTGCAACAGAGCGCTTGGTCACG	CGTGACCAAGCGCTCTGTTGCACT
2928 AGTCCACACCTCGAACGACAGGCG CGCCTGTCGTTCGAGGTGTGGACT 2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGCGTTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCCAAGAGGTCTTCGA 2930 CAGGCGTAAACCTGAACCAACGG CCGTTTGGTTCACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCACGACCGCC 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTTGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCTGATTGAGTAACA		2926	TGCACCTATAGTTTGGTGCCGGTG	CACCGGCACCAAACTATAGGTGCA
2929 CGCCGACCTGGTCAAAGAGCGCTA TAGCGCTCTTTGACCAGGTCGGCG 2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACAGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGAGGCTGCCTACGC 2935 GATGGTGTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGAGATCTC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGAGCG CGCTCCCACCCTGATTGAGAAAAA	20	2927	TGCTCACGTACCAGGACACTCGAG	CTCGAGTGTCCTGGTACGTGAGCA
2930 GCCTAAGGGCCTGTCGTTTTCCGA TCGGAAAACGACAGGCCCTTAGGC 2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACAGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAAAACACCATC 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 35 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTAGAGTAGAG		2928	AGTCCACACCTCGAACGACAGGCG	CGCCTGTCGTTCGAGGTGTGGACT
2931 TGTGCGTGCTTATGTTCCGGTCTC GAGACCGGAACATAAGCACGCACA 2932 CAACCGTTGGCCGTAACAAAAATC GATTTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGAACG CGCTCCCACCCTGATTGAGTAAGA		2929	CGCCGACCTGGTCAAAGAGCGCTA	TAGCGCTCTTTGACCAGGTCGGCG
2932 CAACCGTTGGCCGTAACAAAAATC GATTTTGTTACGGCCAACGGTTG 2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 35 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGAACG CGCTCCCACCCTGATTGAGTAGAG		2930	GCCTAAGGGCCTGTCGTTTTCCGA	TCGGAAAACGACAGGCCCTTAGGC
2933 CGAGAATCAAGGCGTACCATCTCG CGAGATGGTACGCCTTGATTCTCG 2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGTTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2931	TGTGCGTGCTTATGTTCCGGTCTC	GAGACCGGAACATAAGCACGCACA
2934 GCGTAGGCAGCCTCCAGGGAATGG CCATTCCCTGGAGGCTGCCTACGC 2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTAGCTTG 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	25	2932	CAACCGTTGGCCGTAACAAAAATC	GATTTTTGTTACGGCCAACGGTTG
2935 GATGGTGTTTTCGCCAAGACCAAT ATTGGTCTTGGCGAAAACACCATC 2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG  2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA  2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA  2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC  2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG  2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC  2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC  2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG  2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA  2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC  2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA  40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2933	CGAGAATCAAGGCGTACCATCTCG	CGAGATGGTACGCCTTGATTCTCG
2936 CAAGCTAGGGACAGAATTGCCCAC GTGGGCAATTCTGTCCCTAGCTTG 2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2934	GCGTAGGCAGCCTCCAGGGAATGG	CCATTCCCTGGAGGCTGCCTACGC
2937 TAAATAGGCGAAACCGTTCGTGGC GCCACGAACGGTTTCGCCTATTTA 2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2935	GATGGTGTTTTCGCCAAGACCAAT	ATTGGTCTTGGCGAAAACACCATC
2938 TCAAGACCCGCAATGTGTTCATGT ACATGAACACATTGCGGGTCTTGA 2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2936	CAAGCTAGGGACAGAATTGCCCAC	GTGGGCAATTCTGTCCCTAGCTTG
2939 GCGGCTGGTAGACTCTTTGCACAA TTGTGCAAAGAGTCTACCAGCCGC 2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	30	2937	TAAATAGGCGAAACCGTTCGTGGC	GCCACGAACGGTTTCGCCTATTTA
2940 CAGGCGTAAACCTGAACCAAACGG CCGTTTGGTTCAGGTTTACGCCTG 2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2938	TCAAGACCCGCAATGTGTTCATGT	ACATGAACACATTGCGGGTCTTGA
2941 GCCGATCTGTGCTGAGGTTCATCA TGATGAACCTCAGCACAGATCGGC 2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2939	GCGGCTGGTAGACTCTTTGCACAA	TTGTGCAAAGAGTCTACCAGCCGC
2942 GATATCGCGTCGCAATATCACGCG CGCGTGATATTGCGACGCGATATC 2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2940	CAGGCGTAAACCTGAACCAAACGG	CCGTTTGGTTCAGGTTTACGCCTG
2943 CCCTGCACGATTAAGCCACCTGTA TACAGGTGGCTTAATCGTGCAGGG 2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2941	GCCGATCTGTGCTGAGGTTCATCA	TGATGAACCTCAGCACAGATCGGC
2944 TGACATACAGATTTGTGTGGCCCC GGGGCCACACAAATCTGTATGTCA 2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG	35	2942	GATATCGCGTCGCAATATCACGCG	CGCGTGATATTGCGACGCGATATC
2945 GTTTGCGGCCGGTATTCACGATGT ACATCGTGAATACCGGCCGCAAAC 2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2943	CCCTGCACGATTAAGCCACCTGTA	TACAGGTGGCTTAATCGTGCAGGG
2946 TTTTACCTGGCCATTGGTGAGCTC GAGCTCACCAATGGCCAGGTAAAA 40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2944	TGACATACAGATTTGTGTGGCCCC	GGGCCACACAAATCTGTATGTCA
40 2947 CTCTACTCAATCAGGGTGGGAGCG CGCTCCCACCCTGATTGAGTAGAG		2945	GTTTGCGGCCGGTATTCACGATGT	ACATCGTGAATACCGGCCGCAAAC
		2946	TTTTACCTGGCCATTGGTGAGCTC	GAGCTCACCAATGGCCAGGTAAAA
2948 GGGTTGGAGGGAGTCTTGACCATT AATGGTCAAGACTCCCTCCAACCC	40	2947	CTCTACTCAATCAGGGTGGGAGCG	CGCTCCCACCCTGATTGAGTAGAG
		2948	GGGTTGGAGGGAGTCTTGACCATT	AATGGTCAAGACTCCCTCCAACCC

2949 2950 2951 2952 5 2953 2954 2955 2956 2957 10 2958 2959 2960 2961	CGAGGTCGGTAAGGAAAAGCTTGC CTTTACGCAGGCACCTCCGAGCTG CATTGTATGGCCACGTGATTGACG GTACGGTGCGAGAGCGCCTAAGCG TTCCATATGCCGAAATGGACACAA TACGCCTTCCGCTATAGCTCGTGA CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGCCACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG CCAATATTTACGGCCTGATCAGCG	GCAAGCTTTTCCTTACCGACCTCG CAGCTCGGAGGTGCCTGCGTAAAG CGTCAATCACGTGGCCATACAATG CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG CCAGGCTATTGTCGGGCGATACTA
2951 2952 5 2953 2954 2955 2956 2957 10 2958 2959 2960	CATTGTATGGCCACGTGATTGACG GTACGGTGCGAGAGCGCCTAAGCG TTCCATATGCCGAAATGGACACAA TACGCCTTCCGCTATAGCTCGTGA CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	CGTCAATCACGTGGCCATACAATG CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2952 2953 2954 2955 2956 2957 10 2958 2959 2960	GTACGGTGCGAGAGCGCCTAAGCG TTCCATATGCCGAAATGGACACAA TACGCCTTCCGCTATAGCTCGTGA CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	CGCTTAGGCGCTCTCGCACCGTAC TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
5 2953 2954 2955 2956 2957 10 2958 2959 2960	TTCCATATGCCGAAATGGACACAA TACGCCTTCCGCTATAGCTCGTGA CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	TTGTGTCCATTTCGGCATATGGAA TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2954 2955 2956 2957 10 2958 2959 2960	TACGCCTTCCGCTATAGCTCGTGA CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	TCACGAGCTATAGCGGAAGGCGTA TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2955 2956 2957 10 2958 2959 2960	CTGTACGCCACGCATGAAGGGTGA CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	TCACCCTTCATGCGTGGCGTACAG GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2956 2957 10 2958 2959 2960	CTTACGCGTCCAATGACTGCCACC CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	GGTGGCAGTCATTGGACGCGTAAG CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2957 10 2958 2959 2960	CACATGGTAGAACTCGATCGGCAG CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	CTGCCGATCGAGTTCTACCATGTG ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
10 2958 2959 2960	CGCACCGGAAACTAGTGGATGTGT ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	ACACATCCACTAGTTTCCGGTGCG GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2959 2960	ACTATGGCAACCGACACTTGGTCC CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	GGACCAAGTGTCGGTTGCCATAGT TTGCAGGTGGGTAGCGCAAACTAG
2960	CTAGTTTGCGCTACCCACCTGCAA TAGTATCGCCCGACAATAGCCTGG	TTGCAGGTGGGTAGCGCAAACTAG
	TAGTATCGCCCGACAATAGCCTGG	
2961		CCAGGCTATTGTCGGGCGATACTA
	CCAATATTTACGGCCTGATCAGCG	
2962		CGCTGATCAGGCCGTAAATATTGG
15 2963	ATGGCTATCCCTTACTGGCTCGCC	GGCGAGCCAGTAAGGGATAGCCAT
2964	CAAAACTTGGCAGGCTTGGGACTT	AAGTCCCAAGCCTGCCAAGTTTTG
2965	AATGACCGAGGCTGCAAGATTGAC	GTCAATCTTGCAGCCTCGGTCATT
2966	ATCATCTTTCGCCACCAGACATGG	CCATGTCTGGTGGCGAAAGATGAT
2967	CGTTATTACCGATGCACACGTTGC	GCAACGTGTGCATCGGTAATAACG
20 2968	CACACTGGCAATCGCCTCCCTCGT	ACGAGGAGGCGATTGCCAGTGTG
2969	AGGTTGGTAGGAAATCGGAGCGCT	AGCGCTCCGATTTCCTACCAACCT
2970	GCTGAACCACTGTGGTCAAGATGC	GCATCTTGACCACAGTGGTTCAGC
2971	CGTTGAGTACGACACGGTCGAGGT	ACCTCGACCGTGTCGTACTCAACG
2972	TTTTTCCGCCGCAATGTGATCTAA	TTAGATCACATTGCGGCGGAAAAA
25 2973	ACAATACCTCGACCGCTCAGCATC	GATGCTGAGCGGTCGAGGTATTGT
2974	AGTATCCCTGCTGGCATACACGGG	CCCGTGTATGCCAGCAGGGATACT
2975	TCTTGGGCTCGGTAGTTCAGCACT	AGTGCTGAACTACCGAGCCCAAGA
2976	CCCTATATCGAGCCCATAGGGCGA	TCGCCCTATGGGCTCGATATAGGG
2977	CACGAGTGGCATCAACGGCCTACT	AGTAGGCCGTTGATGCCACTCGTG
30 2978	TGCAGGGTCCGATGTGTTCAAGTA	TACTTGAACACATCGGACCCTGCA
2979	GCTTGACCGCTGCTAACCTCGTAC	GTACGAGGTTAGCAGCGGTCAAGC
2980	TTTTGCATCTCTCCACCATCCAGA	TCTGGATGGTGGAGAGATGCAAAA
2981	AGAATGTGCACCGGCTTCCATCTT	AAGATGGAAGCCGGTGCACATTCT
· 2982	TGTTATGACCCGCTCTGTGGCGTG	CACGCCACAGAGCGGGTCATAACA
35 2983	GGAGCTCCTGTTTCATCGAGGCTA	TAGCCTCGATGAAACAGGAGCTCC
2984	CATTITGCTGTTTGGGGGTCCCAT	ATGGGACCCCCAAACAGCAAAATG
2985	CCCGCTCCTTCACGTGAGACGAGA	TCTCGTCTCACGTGAAGGAGCGGG
2986	GCGCTCAAGTCGATTGCCACAACC	GGTTGTGGCAATCGACTTGAGCGC
2987	CGGTTGACGGAGACCGCAGTACTT	AAGTACTGCGGTCTCCGTCAACCG
40 2988	ACTCAAGACCGGTGCACCTCCAGC	GCTGGAGGTGCACCGGTCTTGAGT
2989	TTTCGTGTGCATGCAAGTAATGGC	GCCATTACTTGCATGCACACGAAA

			<del></del>
	2990	GCGGCGTTAGCTCGAGCTAACAAA	TTTGTTAGCTCGAGCTAACGCCGC
	2991	GGGTATCCTGCCCGAGCAGTAATT	AATTACTGCTCGGGCAGGATACCC
	2992	GGCTCCGAATCTCTTGTCCGGTCT	AGACCGGACAAGAGATTCGGAGCC
	2993	AGGATGGCCACGCCGAATCAAAGT	ACTITGATTCGGCGTGGCCATCCT
5	2994	GTGCGGGGACGTTTACATAACGAG	CTCGTTATGTAAACGTCCCCGCAC
	2995	ACTITTGACCTGAGGCCGCTTGCA	TGCAAGCGGCCTCAGGTCAAAAGT
	2996	ACTCCGCTTCAATGGAGACCGTTG	CAACGGTCTCCATTGAAGCGGAGT
	2997	GATCGGAATTCGCCGCCATATTGA	TCAATATGGCGGCGAATTCCGATC
	2998	ATGCGTGCCCATGGAATGACTTTT	AAAAGTCATTCCATGGGCACGCAT
10	2999	CCGCATCGCACGAAGGCAGGTCAT	ATGACCTGCCTTCGTGCGATGCGG
	3000	CACCCTATGCGTCTCCAATTCCTG	CAGGAATTGGAGACGCATAGGGTG
	3001	TGATATGCATCGCTGAGCCTCTGT	ACAGAGGCTCAGCGATGCATATCA
	3002	AGCTTCACACGCTCACTGAACCTG	CAGGTTCAGTGAGCGTGTGAAGCT
	3003	AACCCGGAACCTCCTCTCACTCGG	CCGAGTGAGAGGAGGTTCCGGGTT
15	3004	CTCGTCAAACTTGGCCGAGGAGTC	GACTCCTCGGCCAAGTTTGACGAG
	3005	GTAGCTGGCAACAGGCAATCAGGA	TCCTGATTGCCTGTTGCCAGCTAC
	3006	CTTGTCACGAATATTCGCCAAGCG	CGCTTGGCGAATATTCGTGACAAG
·	3007	CAGTATCTGAAACACGGGGTGCTG	CAGCACCCCGTGTTTCAGATACTG
	3008	GGCTAAAATGGGCGCCCACGTGTA	TACACGTGGGCGCCCATTTTAGCC
20	3009	ATGAGAGCCAAGCGCCTCAACTCC	GGAGTTGAGGCGCTTGGCTCTCAT
	3010	TATTGTTAGGCACCGCTTCGCGCT	AGCGCGAAGCGGTGCCTAACAATA
	3011	GGAACTAGATTGCCAGTGCTCGCC	GGCGAGCACTGGCAATCTAGTTCC
	3012	AGTCGACCCCAAGGCAACTGGGTC	GACCCAGTTGCCTTGGGGTCGACT
	3013	GGTACTGTTAGCTCGACGATGGCC	GGCCATCGTCGAGCTAACAGTACC
25	3014	CCGCAATACTTGACGGTAACAGGG	CCCTGTTACCGTCAAGTATTGCGG
	3015	AATTCCGGGTTTGAACGGTTGGAA	TTCCAACCGTTCAAACCCGGAATT
	3016	GACACGCAATCGGGTCTATGCGAA	TTCGCATAGACCCGATTGCGTGTC
	3017	GATTTTGGCGTCTCATTGCGTGAT	ATCACGCAATGAGACGCCAAAATC
	3018	TGCCATAGGGAGGAAACGCAATTA	TAATTGCGTTTCCTCCCTATGGCA
30	3019	GAGGTGCCCATGTTAGTGGTGTCC	GGACACCACTAACATGGGCACCTC
	3020	GCTTTAGCGGTCATACGACCACCA	TGGTGGTCGTATGACCGCTAAAGC
	3021	CCGCTACCAACAATCCGATTAACG	CGTTAATCGGATTGTTGGTAGCGG
	3022	GAGGATCTGGCCACATCGAGAAAG	CTTTCTCGATGTGGCCAGATCCTC
	3023	CTCGTTTGGTACCACGTTTTGCCG	CGGCAAAACGTGGTACCAAACGAG
35	3024	AATACACGCGGCGTAAACAGACGA	TCGTCTGTTTACGCCGCGTGTATT
	3025	TGTCATGGGCCAAATGACAGTGGC	GCCACTGTCATTTGGCCCATGACA
	3026	ACAGCACTTCCGACCCGTGTACGA	TCGTACACGGGTCGGAAGTGCTGT
	3027	CTCCGTAAAGAGCACAGCTTTGCC	GGCAAAGCTGTGCTCTTTACGGAG
	3028	ACGAACAGGTAGGGATCGGTCCTC	GAGGACCGATCCCTACCTGTTCGT
40	3029	TGGATCCACCTTACCGCGCCATCG	CGATGGCGCGGTAAGGTGGATCCA
	3030	AGTATCAAATAGCGGCGCGCAAG	CTTGCCGCGCCGCTATTTGATACT

3032   AGTGTTGAGCCAACTCCCACCAT   ATTGGTGGAGTTGGCTCGACACT     3034   AAATGACATCCGTTTGGCCACAGC   GCTGTGGCCAAACGGATGTCATTT     3035   CGAATCATATCGCCATCGAACTGG   CCAGTTCGATGGCGATATGATTCG     3036   TATAATGCACTCGCTTGGTCCCA   TGCGCACCAAGCGATGCATTATA     3037   GCCAAGCAGATGGTAATTATGGCC   CGCCATAATTACCATCTGCTTGGC     3038   CACGCGGGAAGAGCACGTAGAACT   AGTTCTACGTGCTTGTGCGTA     3039   TACCCGAGAATTTGGAGAACAC   CGCTGTTCCCACAGTTCCCGCTG     3039   TACCCGAGAATTTGGAGAACACG   CGCTGTTCCCACAGTTTCCGGTA     3040   TGACGGCCAACTGTGGCATATTAC   GATAGATGCCACAGTTTCCGGTA     3041   CACAGTGTTCCAGCCCTTGACGAT   ATTCGTCAAGGGCTGGAACACTGTG     3042   TACCCGCCCACACATGAAGTTGC   CCAACTTTCATGTGTGGGCAGCACTGTG     3043   TGGCATATTTAAGATTCGGCGAC   CGTCGCCGAATCTTAATATGCCA     3044   ACTGAAAAAAGAACGGGTTAGCGGG   CCCGCTACCCGTTCTTTTTTCAGT     3045   TCTGACCGCAATAGTGGTGCGG   CCCGCTACCCGTTCTTTTTTCAGT     3046   ACTTTTTGGCGGGCCCTCCTCTGT   ACGAGAGAGGCCCCGCCAAAAAG     3047   CTGCCCAGATCATTGCGCGATCC   CGGATCGCGCAATGATCTGCGGTCAC     3048   CGGAGGTTAAATGCTTTAACCGGC   CGGATCACGCAATGATCTGCGGCAC     3049   AGCCGTCTCCAAACGTCCTTCTGT   ACGAGAGAGGCCCCGCCAAAAAG     3049   AGCCGTCTCCAAACGTCCTTCTGT   ACGAGAGAGGCCCCGCCAAAAAG     3049   AGCCGTCTCCAAACGTCCTTCTGT   ACGAGAGAGGCCCCCCCAAAAAG     3049   AGCCGTCTCCAAACGTCCTTCTGT   ACGAGAGAGACGTTTGAACACCT     3050   AGATGCTATCCTGAGTGGGCCTGC   CGCGTTAACAGCTTTAACCTCCG     3051   ACAGGGTGAAGAGACCGTGGGATG   CATCCCACGGTTCTTCACCCTGT     3052   GACTGTTAACGGACCACCGGT   CATCCCACGGTTCTTCACCCTGT     3053   AGCTGTTAACGGACCCCACACCGGT   CATCCCACGGTTCTTCACCCTGT     3054   TTCCTTGATGTGGCATTCCTC   ACGAGAATGCCCACACTACCGCA     3055   ATGCGCGCGTTTTTCCTTCTT   ACAGAAATACCCACACATACCGCA     3056   ATGCGCGGCTTCTTTCCTTCTTGATTT   ACATCAAGGAAAGAACGCCCCATACCGGT     3056   CTGTTAAACTTGTACCGCGCCC   GGCCGCGGTACAACTTAACAGCA     3057   ACCTTTAAACTTGTACCGCGCCC   GGCCGCGGTACAACTTTAAACGT     3058   AGGGCGCTTTATCCGCG   ACCGGTTGTACAGCTCACCG     3059   CAGGCCGCTTAACACC   CGGTTGAGCGTCTAACCGCTAACCC     3059   CAGGCCCATTACCACC   CGGTTGAGCGCCCTTTAACGGCTCTTAACGGCTCTTTAACGGCCC				
3033		3031	GAATTACATTGTGGATGGAGGCGG	CCGCCTCCATCCACAATGTAATTC
3034   AAATGACATCCGTTTGGCCACAGC   GCTGTGGCCAAACGGATGTCATTTGCGCATCGAACTGG   CCAGTTCGATCGCGATTGATTGGCGATTGATTGGCGATTGATT		3032	CTCCTCGGGGAGTCGAGGAGTACG	CGTACTCCTCGACTCCCCGAGGAG
5         3035         CGAATCATATCGCCATCGAACTGG         CCAGTTCGATGGCGAATTGATTCG           3036         TATAATGCACTCGCTTGGTGCGCA         TGCGCACCAAGCGAGTGCATTATA           3037         GCCAAGCAGATGGAAACT         TGCGCACCAAGCGAGTGCATTATA           3038         CACGCGGAAGACGGTAGAACT         AGTTCTACGTGCTCTTCCCCGCGTG           3039         TACCCGAGAATTTGGAGAACACGC         CGCTGTTCTCCAAATTCTCGGGTA           3041         CACAGTGTTCCAGCCCTTGACGAT         ATCGTCAAGGGCTGGAACACTGTG           3042         TACCCGCCCACACATGAAGTTGG         CCAACTTTCATGTGTGGGGGCAC           3043         TGGCATATTTAAGATTCGGCGACC         CGTCGCCAATCTTAATATTCTGGTGACAC           3044         ACTGAAAAAGAACGGGTAGCGGC         CCTCGCCCACATCTTAATATTCTGGTACAC           3045         TCTGACCCCAATAGGTGGTACTGC         CCGATCCCGTTCTTAATTTTCAGTAGAAATTCTGGGCACC           3046         ACTTTTTGGCGGGCCCTCTCTCGT         ACGAGAGAGGGCCCGCCCAAAAAG           3047         CTGCCCAGATCATTTAACCGCC         CGCAGTCAAGCATTTAACCTCCGC           3048         CGGAGGTTAAATGCTTTAACCGCC         CGCAGTCAAAGCATTTAACCTCCG           3049         AGGCGTCTCCCAAACGTCCTTCTGT         ACAGAAGACGCTTTGGAACCCTTTCACACCTTTCTGT           3051         ACAGGGTAAGAGACACCACAC         CGTCGTTTCACCAGATCACCACCTGT           3052         GACTGTTAACGGACACACCACGT         CTCCCACAGTAGACACACCTT		3033	AGTGTCGAGCCAACTCCCACCAAT	ATTGGTGGGAGTTGGCTCGACACT
3035		3034	AAATGACATCCGTTTGGCCACAGC	GCTGTGGCCAAACGGATGTCATTT
3037   GCCAAGCAGATGGTAATTATGGCG   CGCCATAATTACCATCTGCTTGGC     3038   CACGCGGGAAGAGCACGTAGAACT   AGTTCTACGTGCTCTTTCCCGCGTG     3039   TACCCGAGAATTTGGAGAACAGCG   CGCTGTTCTCCCAATTCTCGGGTA     3040   TGACGGCAAACTGTGGCATCTATC   GATAGATGCCACAGTTTCCCGCTCA     3041   CACAGTGTTCCAGCCCTTGACGAT   ATCGTCAAGGGCTGGAACACTGTGG     3042   TACCCGCCCACACATGAAGTTGG   CCAACTTTCATGTGTGGGCGGGTA     3043   TGGCATATTTAAGATTCGCGCACC   CGTCGCCGAACACTGTAATATTGCCA     3044   ACTGAAAAAGAACGGGTAGCGGG   CCGCTACCCGTTCTTTTTTCAGT     3045   TCTGACCGCAATAGGTGGTCATTG   CAATGACCACCTATTGCGGTACAGA     3046   ACTTTTTGGCGGGCCCTCTCTCTT   ACGAGAGGGGCCCGCCAAAAAG     3047   CTGCCCAGAATCATTGCGCCATCCG   CGGATCGCGGCAATAGCTTTCAGCACCATTTTAACTTCCGC     3048   CGGAGGTTAAATGCTTTAACCGGC   GCCGGTTAAAGCATTTAACCTCCGC     3049   AGGCGTCTCCAAACGTCCTTCTGT   ACAGAAGGACGGCCCACAAAAGC     3050   AGATGCTATCCTGAGTGGGCCTGC   GCAGGCCCACTCAGGATGACCTCCC     3051   ACAGGGTGAAGAGACCGTGCGGCCCACACAGGATGATCTTGAGCACCT     3052   GACTGTCTAACGGACACACACGCG   CATCCCACGGTCTTTCACCCTCTT     3053   AGCTGTTAACGGACGACACACACGGC   CATCCCACGGTCCTTAACAGCT     3054   TTGCGTAGTGGGCCCTCCCACACCCGCTCCACGGTCCTTAACAGCT     3055   ATGCGCGCTTCTTTCTT   AGAGGAAATGCCCACACTACGCAA     3056   TTAACGGCCGCTCATTCAGC   CTGAATAAGACGCGCACCCTTAACAGCT     3056   TTAACGGCGCTCCTTTTCATC   CTGAATAAGACACCGCACCCCTTAACAGCT     3057   ACCTTTAAACTTGACCACCGCCCCCTTAACAGCTC     3058   AGGGATGCACAGAGCACCCACATGTT   AACATGTGGTGCCCCTTAACAGCT     3059   CGGTTCGACAGAGCACCCACATGTT   AACATGTGGTCCCTTGAACCCCTTAA     3059   CGGTTCGACAGGACCACACACCCCCCTTAA     3050   CAGGGCGATTGCACATGAGATT   AACATGTGGTCCATCCCCTT     3051   ACACTGTAACAAAATT   AACATGTGACACACCCCCTTAA     3052   CGAAGGGGTTCATTCAC   CTGAATAACACGGGGCACCCCTTAACGCAACCCCCTTAACGAACACCCCTTAACGAACACCCCCTTAACAGAACACCCCTTAACAGAACAACACCCCTTAACAACAACACCCCTTAACAACAACACCCCTTAACAAC	5	3035	CGAATCATATCGCCATCGAACTGG	CCAGTTCGATGGCGATATGATTCG
3038   CAGGCGGGAAGAGCACGTAGAACT   AGTTCTACGTGCTCTTCCCCGGTG		3036	TATAATGCACTCGCTTGGTGCGCA	TGCGCACCAAGCGAGTGCATTATA
10   3040   TACCCGAGAATTTGAGAACAGCG   CGCTGTTCTCCAAATTCTCGGGTA		3037	GCCAAGCAGATGGTAATTATGGCG	CGCCATAATTACCATCTGCTTGGC
10 3040 TGACGGCAAACTGTGGCATCTATC GATAGATGCCACAGTTTGCCGTCA 3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACACTGTG 3042 TACCCGCCCACACTGAAAGTTGG CCACACTTTCATGTGTGGGCGGGTA 3043 TGGCATATTTAGATTCGGCGACG CGTCGCCGAATCTTAAATATGCCA 3044 ACTGAAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTTTTAGAT 15 3045 TCTGACCGCAATAGGTGATCATTG CAATGACCACCTATTTGCGGTCAGA 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC CCGGATCGCGCAATGATCTGGGCAC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGAGACGCCTCCGC 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGAGACGTTTGAGACACCCTG 3051 ACAGGGTGAAAGAGACCGTGGGATG CATCCCACAGGATTGACATCT 3052 GACTGTCTAACGGACGACACACGC 3053 AGATGCTATCCTGAGTGGGCCTG CACACACGGTCTCTTTCACCCTGT 3052 GACTGTCTAACGGACCGACAACCGCG CGTCGTGTCTCCTTTCACCCTGT 3054 TTGCGTAGTGTGGGCATTCCTTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTTGATGTA TACATCAAGAAAGAAGCCGCCATAAGCATCT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGCATAACGACG 3057 ACCTTTAAACTTGTACCGCGCCC GGGCCGCGGAACGACGCCATAACGACG 3058 AGGGATGCACGACACACCACT TACACCACAGCTTTAAACGT 3058 AGGGATGCAAGAGACCCCACAACTTT AACATGAGACAAGCCCCCTTAA 3059 CGGTTCGACGAAACCCCCACATCTT AACATGAGACACCCCCTTAA 3060 CAGGGCGATAGTCACATAGGAGTT AACATGAGACGCCCCTTAACGTCAACCCCCGAAAACGAGCCCCCTTAACGACACACAC		3038	CACGCGGGAAGAGCACGTAGAACT	AGTTCTACGTGCTCTTCCCGCGTG
3041 CACAGTGTTCCAGCCCTTGACGAT ATCGTCAAGGGCTGGAACACTGTGG 3042 TACCCGCCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGCGGGTA 3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATATGCCA 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTTCAGT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGGTCAGAA 3046 ACTTTTTGGCGGGCCCTTCTCGT ACGAGAGAGGGCCCCCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAAAAAG 3048 CGGAGGTTAAATGCTTTAACCGGC CGGATCGCGCAATGATCTGGGCAC 3049 AGGCGTCTCAAACGTCTTCTGT ACGAGAGAGAGCGTTTGAGACGCCT 3049 AGGCGTCTCAAACGTCTTCTGT ACGAGAGAGACGTTTGAGACGCCT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACCAGGATCACCCTG 3051 ACAGGGTGAAGAGACCGTGCGCCGCAATGACTCTTCACCCTGT 3052 GACTGTTAACGGACGACCACCGCC CGTCGTGTCTCTTCACCCTGT 3053 AGCTGTTAAGGACCGACACCGGT ACCGGTTCTCCACCAGGATAGCATCT 3054 TTGCGTAGTGTGGGCATTTCCTT AGAGGAAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAACGCCCAAACGGT 3056 TTAAGGGCGCCCGCTCTATTCAG CTGAATAGACAGCCGCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCC GGGCCCGCGTACAAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGGCCCCTTAA 3059 CGGTTCGACGTATGACCCCGACTCACCCAATGTTAAAGGT 3069 CAGGGCGATAGTCACATGGTA AACATGTGGTGCCTCTGCATCCCT 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGCGGACGCCCTTAA 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGCGGACGCCCTTAA 3062 CGAAGGGGTTGTGCAATTACCCCAA TGCGGATGCTCATACGCCCGAAACCCCTTAGCAAGAAAAAACCCCCCCAATGACAAAATT AACTTTGACACACCCCTTCGAACCCCGAAACCCACAATGTTAAAACGGGGCAGTCAAACCCCTTCGAACCCCCAATGACCAAAGAAAAACCCCCCCAATGACCAAAATT AACTTTGCATTGCA		3039	TACCCGAGAATTTGGAGAACAGCG	CGCTGTTCTCCAAATTCTCGGGTA
3042 TACCCGCCACACATGAAAGTTGG CCAACTTTCATGTGTGGGCGGGTA 3043 TGGCATATTTAAGATTCGCGACG CGTCGCCGAATCTTAAAATATGCCA 3044 ACTGAAAAAGAACGGGTAGCGG CCCGCTACCCGTTCTTTTTTCAGT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGGTCAGA 3046 ACTTTTGGCGGGCCCTCTCTGT ACGAGAGAGGGCCCCCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGAATGACTCGGACA 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCCCAAACGTCCTTCTGT ACAGAAGAACGACTTTGAGACACCCCGAAACAGTCCTCTGGT ACAGAAGAACGACTTTGAGACACCTCCG 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAAGAGACCGTGGGATG CATCCCACGGTTCACACGTC 3052 GACTGTCTAACGGACGACACCGC CGTCGTGTCTCCTTCACACGTC 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTCTCCTTACACCGTG 3054 TTGCGTAGTGGGCATTTCCTT AGAGGAAATACCCACACACACCGC CGTCGTGTCGCCTAACAGCT 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAACCCCCCTTAA 3056 TTAAGGGCGTCCGCGTTCATTCAC 3056 TTAAGGGCGTCCGCGTTCATTCAC 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCCGCGTACAAGTCCCCT 3059 CGGTTCGACGTATGACACCACCGA TGCGAATACACCGGACCCCCTTAA 3059 CGGTTCGACGTATGACACCACACTGTT AACCTCAAGGAAACACCCCCTTGA 3061 GCTTGACTGCCCCGTTTCATATGT ACATATAAACGGGGCACTCAACCCG 3062 CGAAGGGCATAGTCACATGGAGGTT AACCTCCATGTGACTACCCTG 3063 AAAACCCACCGCATTGAACACCACCACCGCTTCAACCCGCATGACCACCCTTCGAACCCCGAAACCCGCATTGAACACCCGCATTAACGCCACACCCCTTCGAACCCCCTTCGAACCCCCTTCGAACCCCCTTCGAACCCCCCTTCGAACCCCCCTTCGAACCCCCCTTCGAACCCCCCTTCGAACCCCCCCTTCACCCCCCTTCCCCCCCC	10	3040	TGACGGCAAACTGTGGCATCTATC	GATAGATGCCACAGTTTGCCGTCA
3043 TGGCATATTTAAGATTCGGCGACG CGTCGCCGAATCTTAAATATGCCA 3044 ACTGAAAAAGAACGGGTAGCGGG CCCGCTACCCGTTCTTTTTCAGT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGGTCAGA 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGACGCCT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAAGGATAGCACCTT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTTCTTCACCCTGT 3052 GACTGTCTAACGGACCACAGACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGGACCACACACCGGT ACCGGTTCTCTCACCACGT 3054 TTGCGTAGTGGGCCTTCTT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTTCATCTA AGAGGAAATGCCCACACTACGCAA 3056 TTAAGGGCGTCCGCTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTTGCACCCTT 3059 CGGTTCGACGTATGAGCACCCCACATGTT AACATGTGGTGCCTCTTGCACCCCT 3060 CAGGGCCATAGTCACATGGAGGTT AACATGTGGTGCCTCTTGCACCCCT 3061 GCTTGACTGCCCCGTTTCATATGT ACATTGAACAGCGGGACCCCTTAACGCCCCGACAGGCACCCCTTCACCCCCGACAACGTTCAACACCCCTTCCCCCCGACACACAC		3041	CACAGTGTTCCAGCCCTTGACGAT	ATCGTCAAGGGCTGGAACACTGTG
3044 ACTGAAAAAGACGGGTAGCGGG CCCGCTACCCGTTCTTTTTCAGT 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGGTCAGA 3046 ACTTTTTGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGAACGCTTTGGAGACGCCT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGACCCTGT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTTCTTCACCCTGT 3052 GACTGTCTAACGGACCACACGAC GCTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGACGACCACACCGGT ACCGGTTCTTCACCCTGT 3054 TTGCGTAGTGTGGGCCTTCTTCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTTCATTCATTCACACACTCCACACTACGCAA 3056 TTAAGGGCGTCCGCTCTATTCAG CTGAATAGACACGCGCAT 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTTTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA 3060 CAGGGCGATAGTCACATGGTAACACGCT 3061 GCTTGACTGCCCCGTTTCATTCT ACATCAAGGAACACCCCTTCGCAACCCGT 3062 CGAAGGGGTTGGACATTCCCCA TGCGGATGCTCATACGTCGAACCC 3063 AAACCGCACCGATTGAACATTATCCCGA 3064 ATTCCTGGCCCCTTTAATGT ACATATGAACAGCGGCACTCAACC 3065 CCAACGGGTTGGAACACACTT AACATTGTACACACCCCTTCGCATCCCT 3066 GCTTCGCCCCGTTTCATATGT ACATATGAACACGCGGCAGTTCAACCC 3066 GCTCGTAAATGGACACACATT AACATTTTTCACACACCCCTTCGCATCCCG 3066 GCTCGTAAATGGACACACATT AACATTTTTTTTTTTTCCAGGACTCCATTCCAGCAAACCCCTTCACGCCCCGTTTCATACGTGAACACCCCTTCACGCCCCGTTTCATACGTGAACACCCCTTCACCGCCCCGTTTCATACGTGAACACCCCTTCACCGCCCGTTTAAATGGACAAAACCACCCTCACCGCAAGACACACCTTTTCAACGACACACTTTTCAACACACCCTTTCCAGCAACACCCTTCACCGCCCCATTTAACGGGAACCCCTTCACCGCCCCGTTTAACTGGGGAACCCCTCAACCCGCAAGAACACACCTTTCAACGGAACACACCTTTTCCCCCCATTTAACGACACACCTTTTCAACGACACACAC		3042	TACCCGCCCACACATGAAAGTTGG	CCAACTTTCATGTGTGGGCGGGTA
15 3045 TCTGACCGCAATAGGTGGTCATTG CAATGACCACCTATTGCGGTCAGA 3046 ACTITITGGCGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC CCGGATCAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGACACCCTT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTTTCACCCTGT 3052 GACTGTCTAACGGACGACACCGGT CGTCGTTCGTCCGTTAGACAGTC 3053 AGCTGTTAACGGACGACACCGGT ACCGGTTGTCGGCTCACACGCT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAACCCCCTTAA 3056 TTAAGGGCGCGCTCTATTCAG CTGAATAGACGCGGACCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCC GGGCCGCGGTACAAGTTTAAACGT 3058 AGGGATGCAGAGGACACCACATGTT AACATGTGGTGCCCTTGAACCGC 3059 CGGTTCGACGATATGAGCATCCCCA TGCGGATGCTCATCAGCCTG 3060 CAGGGCGATAGTAGAGCATCCCCA TGCGGATGCTCATACGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGGGGCACCCCTTGA 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACGGGGCACCCCTTGA 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AACTTGTGACTACGCCTG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTTCCAGGACA 3066 GCTCGTAAATGGGGAGGAATTGAACACCCCTTCG 3067 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCAGACCACCCTTTCGCCTGCACCGC 3068 GCTCCGTAAATGGGGAGGAATTGAACACCCCTTTCATATGT ACATTTGCACACACCCCTTTCGAACCACCCCTTCGCACCGCAATGACAAAATT AATTTTGTCACTACACACCCCTTTCGAACCACCCCTTCGCAACCACGCAATGACAAAATT AATTTTGTCACTACACACCCCTTTCGAACCACCCCTTCGCAACCACGCAATGACAAAATT AATTTTGTCACTACACACCACCACTTTCCACCACCACACACCCCTTTCATATGT ACAATTCCACCACACCCCTTTCATATGT ACAATTCCACCACACCA		3043	TGGCATATTTAAGATTCGGCGACG	CGTCGCCGAATCTTAAATATGCCA
3046 ACTITITGECGGGCCCTCTCTCGT ACGAGAGAGGGCCCGCCAAAAAG 3047 CTGCCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGAGACACCCTT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTTTCACCCTGT 3052 GACTGTCTAACGGACGACACCGGC CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAACGGACGACACCGGT ACCGGTTGTCGGCTCAACAGGT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCACAAGAGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGAAGACACCACATGTT AACATGTGGTGCCTCTGCAACCCC 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGAACTGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCACTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACCACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCACTACACCCCTTCG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTTGCAGACCG 3065 CCTACCTGCCTGCTAGCGGTGAGG CCCCAATTGAGGGTCCTTGCAGCACGCAAGACCCCTTCGCACCGCAAGACACCCCTTCGCACCGCAAGACACACCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACACCCCTTCGCACCGCAAGACACCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACACCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACCCCTTTCAAACGGGGCAATGACAAAATT AATTTTGTCATTGCAGCACCCCTTTCAATGCACAACCCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACCCCTTTCAATGCACAACCCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACACCCCTTTCAATGCACAACCCCCTTCGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCACACCCCTTTCAATCCACCAAGCACCCCAATTGACAAAATT AATTTTGTCATTGCACAACCCCCTTTCAATCCACCAAGCACCCCAATGACAAAATT AATTTTGTCATTGCACAACCCCCTTTCAATCCACGAAAAATT AATTTTGTCATTGCACAAACCCCCTTTCAATCCACGAAAAATT AATTTTGTCATTGCACAAGACCCCTTCAACCCGCAATGACAAAAATT AATTTTTCTCATGCACAACCCCCATTTACAGACCCCCAATTACAAAAAATT AATTTTTTCATGCACAAACAAATTACAAGAGAAAATTACAAAAAAAA		3044	ACTGAAAAAAGAACGGGTAGCGGG	CCCGCTACCCGTTCTTTTTCAGT
3047 CTGCCAGATCATTGCGCGATCCG CGGATCGCGCAATGATCTGGGCAC 3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGACGCCT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACCCTGT 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGCGACCACACCGGT ACCGGTTGTCGGCCCACACCACA	15	3045	TCTGACCGCAATAGGTGGTCATTG	CAATGACCACCTATTGCGGTCAGA
3048 CGGAGGTTAAATGCTTTAACCGGC GCCGGTTAAAGCATTTAACCTCCG 3049 AGGCGTCTCCAAACGTCCTTCTGT ACAGAAGGACGTTTGGAGACGCCT 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACCCTGT 3052 GACTGTCTAACGGACGACACCGACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAACAGCTC 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGGTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGATGAGCATCCGCA TGCGGATGCTCTATACGCCTG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGAACCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAACCGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT ACATTTGACACAACCCCTTCG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGCCAGGAT 3066 GCTCGTAAATGGGGGAGGAATTGGA CCCCAATTGCCCCGTTTCATATGT ACATTTGCACTACCGCTTTTCATATGT ACATTTGCACTACCCCTTTCGATCCCTCGAACCGCCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3066 GCTCGTAAATGGGGGAGGAATTGGA TCCAATTCCTCCCCATTTTCAGGC 3066 GCTCGTAAATGGGGGAGGAATTGGA TCCAATTCCTCCCCATTTTCAGGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGTG 3068 GTTCCGCACATGGATTGAGAAAAATT AATTTTGTCATTGCGGTGCGTTTTTCATGTG 3068 GTTCCGCACATGCAGAGAAAATT AATTTTGTCATTGCGGTGCGTTTTTCATGTG 3060 GCTCCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTTCAGGC 3060 GCTCCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTTCAGGC 3060 GCCCCCAATTGAGAAAAAATT AATTTTTTCTTCCTCCCCATTTTCATGTG 3060 GCCCCCAATTGAGAAAAAATT AATTTTTTCTTTCCTTGCTGGTATTTCAGGC 3060 GCCCCCAATTGAGAAAAAATT AATTTTTTCTTCCTCCCCATTTTCCAGGC 3060 GCCCCCAATTGAGAAAAAATT AATTTTTTCTTCCTCCCCATTTTCCAGGC 3060 GCCCCAATTGAGAAAAAAATT AATTTTTCTTCCTCCCCATTTTCCAGGC 3060 GCCCCAATTGAGAAAAAAAAAAAAAAAAAAAAAAAAAAA		.3046	ACTITITGGCGGGCCCTCTCTCGT .	ACGAGAGAGGGCCCGCCAAAAAGT
20 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACCCTGT 3052 GACTGTCTAACGGACGACGACGC CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAACGGACGACACCGGT ACCGGTTGTCGGCCTAACAGCT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAGCGCGCAT 3056 TTAAGGGCGTCCGCGGTCTATTCAG 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCTATACGCCGAACCC 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTCTCGCTGACCCG 3061 GCTTGACTGCCCCGTTTCATATGT ACCTTCATGTGACTACGCCCGGACGCCCTTCGACCCCGAACCGCCATTCAACACCCCCTGCAACCCCCCCTTCAACACCCCCCCC		3047	CTGCCCAGATCATTGCGCGATCCG	CGGATCGCGCAATGATCTGGGCAG
20 3050 AGATGCTATCCTGAGTGGGCCTGC GCAGGCCCACTCAGGATAGCATCT 3051 ACAGGGTGAAGAGACCGTGGGATG CATCCCACGGTCTCTTCACCCTGT 3052 GACTGTCTAACGGACGACACGACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGGACCCGACACCGGT ACCGGTTGTCGGGTCCTAACAGGT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGACTCATACGTCGAACCG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCAGCAACCCCTTCG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGTTAGCAGAATGAAAATT AATTTTGTCATTGCAGGAGATGACAAAATT 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACAGCC 3067 ACATGAAAACAGGCTCAATTGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGAGAAGACCTCAACCG CGCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCCC GAGACCTCAATCCACTGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAAA TTCTTCTTCGTGGTATTGGCGCAAC 3069 GGCACCCAATACCACGAAGAAAA TTCTTCTTCTGTGGTATTGGGTGCCCTAACCAACCCCTTTTCATTTTCATGAAAACAGGCTCAATTCAACAGAAAAAAAA		3048	CGGAGGTTAAATGCTTTAACCGGC	GCCGGTTAAAGCATTTAACCTCCG
3051 ACAGGGTGAAGAGCCGTGGGATG CATCCCACGGTCTCTTCACCCTGT 3052 GACTGTCTAACGGACGACACCACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAACAGCT 3054 TTGCGTAGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCCAATTGGA CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGAGGAATTGGA TCCAATTCCTCCCCATTTTCATGT 3069 GGCACCCAATGACAAGAAAATT AATTTTCTCATCGCGGGAACCGGAACCGGAATGACAAAACAGGCTCAATTGGAGCTTTTTCATGT 3069 GGCACCCAATGACAAAAAAAAAAAAAAAAAAAAAAAAAA		3049	AGGCGTCTCCAAACGTCCTTCTGT	ACAGAAGGACGTTTGGAGACGCCT
3052 GACTGTCTAACGGACGACGACG CGTCGTGTCGTCCGTTAGACAGTC 3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAACAGCT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTACGCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCACCAACCCCTTTCG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGACAATTGGA TCCAATTCCTCCCCATTTACGAGC 3069 GGCACCCAATGACAACACACTCTTT AAAGATGAGCCTGTTTTCATGT 3069 GGCACCCAATACCACGAAGAACACCTTTTCATGTTCTCTCGTGGTATTGCGGGAACCCCTAACCAGAAAACAACCCCTTTCGAACCAACC	20	3050	AGATGCTATCCTGAGTGGGCCTGC	GCAGGCCCACTCAGGATAGCATCT
3053 AGCTGTTAGGACCCGACAACCGGT ACCGGTTGTCGGGTCCTAACAGCT 3054 TTGCGTAGTGTGGGCATTTCCTCT AGAGGAAATGCCCACACTACGCAA 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCAT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACCGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCCG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCACAACCCCTTCG 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAT 3066 GCTCGTAAATGGGGAGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGAGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3069 GGCACCCAATGAGAAGAACACTCTCTTT AAAGATGGAGTTCGAAATTGGGTGCCCT		3051	ACAGGGTGAAGAGACCGTGGGATG	
25 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAGCGCGCAT 3056 TTAAGGGCGCTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGG 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGCCAGGAAT 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGG CCCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATGACACACAAATT AAGATGGAGTTCGAAATGGGGAACCCCTAACCGCAATGAGAAAACAAGAACAAAATTACCCCAATTCCTCCCCATTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCCCTTTTCAAATGGGGAACTCCATTTTCATGTAAAAACAAGGCTCAATTCAAAAACAAGAATTCCATCATGTGCGGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCCATGTGCGAACCTCAATCAA		3052	GACTGTCTAACGGACGACACGACG	CGTCGTGTCGTCCGTTAGACAGTC
25 3055 ATGCGCGCTTCTTTCCTTGATGTA TACATCAAGGAAAGAAGCGCGCATT 3056 TTAAGGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAAGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3053	AGCTGTTAGGACCCGACAACCGGT	ACCGGTTGTCGGGTCCTAACAGCT
3056 TTAAGGCGTCCGCGTCTATTCAG CTGAATAGACGCGGACGCCCTTAA 3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTACGCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTAATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3054	TTGCGTAGTGTGGGCATTTCCTCT	AGAGGAAATGCCCACACTACGCAA
3057 ACCTTTAAACTTGTACCGCGGCCC GGGCCGCGTACAAGTTTAAAGGT 3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGG CCCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT	25	3055	ATGCGCGCTTCTTTCCTTGATGTA	TACATCAAGGAAAGAAGCGCGCAT
3058 AGGGATGCAGAGGCACCACATGTT AACATGTGGTGCCTCTGCATCCCT 3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAACC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTAATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3056	TTAAGGGCGTCCGCGTCTATTCAG	CTGAATAGACGCGGACGCCCTTAA
3059 CGGTTCGACGTATGAGCATCCGCA TGCGGATGCTCATACGTCGAACCG 3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 35 3065 CCTACCTGCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3057	ACCTTTAAACTTGTACCGCGGCCC	GGGCCGCGGTACAAGTTTAAAGGT
3060 CAGGGCGATAGTCACATGGAGGTT AACCTCCATGTGACTATCGCCCTG 3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3058	AGGGATGCAGAGGCACCACATGTT	AACATGTGGTGCCTCTGCATCCCT
3061 GCTTGACTGCCCCGTTTCATATGT ACATATGAAACGGGGCAGTCAAGC 3062 CGAAGGGGTTGTGCAATTACCCGA TCGGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3059	CGGTTCGACGTATGAGCATCCGCA	
3062 CGAAGGGTTGTGCAATTACCCGA TCGGTAATTGCACAACCCCTTCG 3063 AAAACGCACCGCAATGACAAAATT AATTTTGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT	30	3060	CAGGGCGATAGTCACATGGAGGTT	AACCTCCATGTGACTATCGCCCTG
3063 AAAACGCACCGCAATGACAAAATT AATTITGTCATTGCGGTGCGTTTT 3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGG 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3061	GCTTGACTGCCCCGTTTCATATGT	ACATATGAAACGGGGCAGTCAAGC
3064 ATTCCTGGACAAGACCCTCAACCG CGGTTGAGGGTCTTGTCCAGGAAT 3065 CCTACCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGG 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3062	CGAAGGGGTTGTGCAATTACCCGA	TCGGGTAATTGCACAACCCCTTCG
3065 CCTACCTGCCTGCTAGCGGTGAGG CCTCACCGCTAGCAGGCAGGTAGC 3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3063	AAAACGCACCGCAATGACAAAATT	
3066 GCTCGTAAATGGGGAGGAATTGGA TCCAATTCCTCCCCATTTACGAGC 3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3064	ATTCCTGGACAAGACCCTCAACCG	
3067 ACATGAAAACAGGCTCAATTGGGG CCCCAATTGAGCCTGTTTTCATGT 3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT	35	3065	CCTACCTGCCTGCTAGCGGTGAGG	CCTCACCGCTAGCAGGCAGGTAGG
3068 GTTCCGCACATGGATTGAGGTCTC GAGACCTCAATCCATGTGCGGAAC 3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3066	GCTCGTAAATGGGGAGGAATTGGA	
3069 GGCACCCAATACCACGAAGAAGAA TTCTTCTTCGTGGTATTGGGTGCC 40 3070 AGGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3067	ACATGAAAACAGGCTCAATTGGGG	
40 3070 AGGGCATTTCGAACTCCATCTTT AAAGATGGAGTTCGAAATGCCCCT		3068	GTTCCGCACATGGATTGAGGTCTC	GAGACCTCAATCCATGTGCGGAAC
10 00.0		3069	GGCACCCAATACCACGAAGAAGAA	
3071 CATCATCACAAAGGAACGTCGGTG CACCGACGTTCCTTTGTGATGATG	40	3070	AGGGCATTTCGAACTCCATCTTT	AAAGATGGAGTTCGAAATGCCCCT
TOTAL TOTAL		3071	CATCATCACAAAGGAACGTCGGTG	CACCGACGTTCCTTTGTGATGATG

	3072 3073	TAAAGACCCACCGTCAGCAGCAGC	GCTGCTGCTGACGGTGGGTCTTTA
-	2072		
r	3073	CCCCAGGCGTAATGCACCACATAG	CTATGTGGTGCATTACGCCTGGGG
1	3074	GCAGGTCGAACGCTAGTGGTTGAA	TTCAACCACTAGCGTTCGACCTGC
	3075	GGAACTTAGGAGTTCACGTCGCCA	TGGCGACGTGAACTCCTAAGTTCC
5	3076	GCAGATACGGCTAGCTGAGGTGGC	GCCACCTCAGCTAGCCGTATCTGC
Ī	3077	CACAGGCCTAGAGCCTCGGCGTTC	GAACGCCGAGGCTCTAGGCCTGTG
	3078	GTTTTGCGCGCATGAGGTTCATTA	TAATGAACCTCATGCGCGCAAAAC
Γ	3079	TTGCGCCTGATGCCAGCAGTACTA	TAGTACTGCTGGCATCAGGCGCAA
Ţ	3080	GATATCAGGCTTTCCCACTGCCGC	GCGGCAGTGGGAAAGCCTGATATC
10	3081	TGCGCGGAGACGGAGATCTATGAA	TTCATAGATCTCCGTCTCCGCGCA
	3082	CATTGGTGTTGGCTGAGAGTGGAC	GTCCACTCTCAGCCAACACCCAATG
	3083	GTCGGCACTTGGGCACCATTAATA	TATTAATGGTGCCCAAGTGCCGAC
Γ	3084	ATCGATCGGTGTCTCACCACGGAG	CTCCGTGGTGAGACACCGATCGAT
	3085	CGTAGCCTTCCACCGTGTCGATAG	CTATCGACACGGTGGAAGGCTACG
15	3086	CGCTCTCCGTCTGAGGAAAAGGGG	CCCCTTTTCCTCAGACGGAGAGCG
T	3087	TCGCCCCAGCCAAGGATATATTGC	GCAATATATCCTTGGCTGGGGCGA
Γ	3088	TCTCTTGCAAGGAACTCTGCCGTC	GACGGCAGAGTTCCTTGCAAGAGA
Ī	3089	GTCCTGGACAGACGGAGGGTGTTA	TAACACCCTCCGTCTGTCCAGGAC
	3090	GCCAAATTAAGCGGGCTCGTAATC	GATTACGAGCCCGCTTAATTTGGC
20	3091	CCATTTGTTGACCGATGGGAGGGG	CCCCTCCCATCGGTCAACAAATGG
Ī	3092	TGGTCAAAAGAGCACGATCCAGGA	TCCTGGATCGTGCTCTTTTGACCA
	3093	CGCTACTAAGACGCCCCTGTCCAC	GTGGACAGGGGCGTCTTAGTAGCG
	3094	CATACCTCCCGCTTGGATTCACTG	CAGTGAATCCAAGCGGGAGGTATG
	3095	CCGCGGAAGGAATGTCATCTACAA	TTGTAGATGACATTCCTTCCGCGG
25	3096	CACGGGACATTCATTCACAGGACG	CGTCCTGTGAATGAATGTCCCGTG
	3097	AGGAGTCACCCACTCCGCACAAAA	TTTTGTGCGGAGTGGGTGACTCCT
	3098	TCATGACAGCGCACCCCATACCAT	ATGGTATGGGGTGCGCTGTCATGA
	3099	GGTAGGGGACTATCGATCGTGCTG	CAGCACGATCGATAGTCCCCTACC
	3100	ATGTCTCACTACCGCACGTAGCGG	CCGCTACGTGCGGTAGTGAGACAT
30	3101	ACGGAGGAGCGACTCGTTCGCTGC	GCAGCGAACGAGTCGCTCCTCCGT
	3102	GAAGTCTGTCGCCGGTGGACGGAC	GTCCGTCCACCGGCGACAGACTTC
	3103	CCGTAACGTGTATTCGGACGAGCG	CGCTCGTCCGAATACACGTTACGG
[	3104	CGTGGAAGCGACTTAACCAATCGT	ACGATTGGTTAAGTCGCTTCCACG
	3105	GGCATGGGCTATGCCTCACACTAG	CTAGTGTGAGGCATAGCCCATGCC
35	3106	GGGTCGTATTTCAGCATCGTTCGT	ACGAACGATGCTGAAATACGACCC
. [	3107.	AATGGTCGCGCAAACCGTAAGAAT	ATTCTTACGGTTTGCGCGACCATT
Ī	3108	CTGGATTCGGTACGTCCAACGTTT	AAACGTTGGACGTACCGAATCCAG
	3109	CGCAAAAACACCCGTAGCCAAGAA	TTCTTGGCTACGGGTGTTTTTGCG
Ī	3110	TATGGATACGCTTTTGGACTGGGC	GCCCAGTCCAAAAGCGTATCCATA
40	3111	GCTTCAAACGCGCTTCACGCTGGT	ACCAGCGTGAAGCGCGTTTGAAGC
Ī	3112	TACAGCCCGCTCTACCTCGCCACC	GGTGGCGAGGTAGAGCGGGCTGTA

г		TOTALOGOATOTCAAAATCCACCTT	AACGTGCATTTTGACATCGGTTGA
	3113	TCAACCGATGTCAAAATGCACGTT	TACCGCCTACTTCGGAGAGAGCT
-	3114	AGCTCTCTCCGAAGTAGGGCGGTA	GGAGCCAAGTCTCCATGTGTGCGT
Ļ	3115	ACGCACACATGGAGACTTGGCTCC	
<u> </u>	3116	TTCTTGAAAGCTAGTGGGGCGCTA	TAGCGCCCCACTAGCTTTCAAGAA
5	3117	CAATCACGGCTGGGCTATTCTGTG	CACAGAATAGCCCAGCCGTGATTG
_	3118	GTGGCGACCCGTCGGTGAAAGAGT	ACTCTTTCACCGACGGGTCGCCAC
į	3119	CGTCGAATGCCGAACCAGTTAAGT	ACTTAACTGGTTCGGCATTCGACG
	3120	TGCGTATTTGCATGCTCACAGCTG	CAGCTGTGAGCATGCAAATACGCA
[	3121	CGCAGTTGGTTTGTGCACGGCTGC	GCAGCCGTGCACAAACCAACTGCG
10	3122	GTTTTTCCGTGAAAACTGGCATCG	CGATGCCAGTTTTCACGGAAAAAC
Ī	3123	ACAGGTTCCTCCACCACGATTTGA	TCAAATCGTGGTGGAGGAACCTGT
Ī	3124	CTAGCGCGCTTTTAGGTCCTTGCG	CGCAAGGACCTAAAAGCGCGCTAG
	3125	CAAAATCAAAGGGATCAACCGGTG	CACCGGTTGATCCCTTTGATTTTG
Ì	3126	AACGTAACCCCAGTGAGTCAGGCA	TGCCTGACTCACTGGGGTTACGTT
15	3127	TCAACCGGTGCACTTTAGAACGCC	GGCGTTCTAAAGTGCACCGGTTGA
	3128	ATCGCAAAGTTGCAGGCGAATACT	AGTATTCGCCTGCAACTTTGCGAT
	3129	ATATGTCCCTGGGTGCTGCACAAC	GTTGTGCAGCACCCAGGGACATAT
	3130	TGGCACTTTGTAGTGCTGCGGTGG	CCACCGCAGCACTACAAAGTGCCA
}	3131	ACGCACGACGTCCTTCTAAGCTCG	CGAGCTTAGAAGGACGTCGTGCGT
20	3132	CCCACGTGCACTATAGGGATTTCG	CGAAATCCCTATAGTGCACGTGGG
	3133	CCGCGCTTGGTCAGTCATCCTTGC	GCAAGGATGACTGACCAAGCGCGG
	3134	AGCGGCTCAGGGAATAACAACAGG	CCTGTTGTTATTCCCTGAGCCGCT
	3135	ACAACGCGATCGGAGGCAACCAGT	ACTGGTTGCCTCCGATCGCGTTGT
	3136	AGCAATTGCCTCCGTAGAAACCCA	TGGGTTTCTACGGAGGCAATTGCT
25	3137	GAGTCGTGGCATCGCCTGCTATCG	CGATAGCAGGCGATGCCACGACTC
	3138	TCTATGCAAATACTGCGCTTGCGA	TCGCAAGCGCAGTATTTGCATAGA
	3139	TCAGCTTAAGTTACGGTGTGGCCG	CGGCCACACCGTAACTTAAGCTGA
	3140	TCCAAGGTCGAACAGGGATCAGAA	TTCTGATCCCTGTTCGACCTTGGA
	3141	GTTAGGCTGGCGTCAATAGCGCTT	AAGCGCTATTGACGCCAGCCTAAC
30	3142	GGTGTCATAAGGAAGAGGGCATCG	CGATGCCCTCTTCCTTATGACACC
	3143	CCGCCGGCTAGATCAATATTTCT	AGAAATATTGATCTAGCCCGCCGG
	3144	CTAACGTCAAGTTTTACGCCCCGA	TCGGGGCGTAAAACTTGACGTTAG
	3145	GCAGCACAGTTTTCCGATTTGCGG	CCGCAAATCGGAAAACTGTGCTGC
	3146	CGCACGCAAGGGGAGGGATGACTG	CAGTCATCCCTCCCCTTGCGTGCG
<b>3</b> 5	3147	CGGGGCCGAAAAGGACGTCACAAG	CTTGTGACGTCCTTTTCGGCCCCG
00	3148	TTCTCCAACACGGCTAACCGGTAG	CTACCGGTTAGCCGTGTTGGAGAA
	3149	TTACAGCCTGGCCCGAGGTAGTTG	CAACTACCTCGGGCCAGGCTGTAA
	3150	TTTCGGGCAGCATGAGTTATCGAA	TTCGATAACTCATGCTGCCCGAAA
		CTACTGGACGCCCTGCTTCGAAGT	ACTTCGAAGCAGGGCGTCCAGTAG
40	3151	GGTCGTCCGACGTGAAAAGACCAA	TTGGTCTTTTCACGTCGGACGACC
40	3152	GTTTTCGAGCTCTTTCTCCGCAGG	CCTGCGGAGAAGAGCTCGAAAAC
	3153	GITTICOAGCICTTICTCCGCAGG	10010000101110110110011011

5

10

15

3154	GCGTGAAGGTACCCAGTGTCACAG	CTGTGACACTGGGTACCTTCACGC
3155	TTTCTGAACGCTTCGACGCAACAC	GTGTTGCGTCGAAGCGTTCAGAAA
3156	TGCTAATAAGCACGCCTAGCCCGT	ACGGGCTAGGCGTGCTTATTAGCA
3157	AAATTAATTGTGGTGGCTCCGGCG	CGCCGGAGCCACCACAATTAATTT
3158	TTACAATCCTCGGGCTCACTGACA	TGTCAGTGAGCCCGAGGATTGTAA
3159	GCTGAAGGACAAGGCGTGGGCAAC	GTTGCCCACGCCTTGTCCTTCAGC
3160	GGGATAGGAGACCCTCGCAATGGT	ACCATTGCGAGGGTCTCCTATCCC
3161	TTGCAGTACGTCCTTGCGCATGAA	TTCATGCGCAAGGACGTACTGCAA
3162	TTGATCACTGGATTGGGTGCGAAC	GTTCGCACCCAATCCAGTGATCAA
3163	TCTGCAGACGTTGCGAGAGATGAT	ATCATCTCTCGCAACGTCTGCAGA
3164	AGTCTAGCAGGGATCGAAGCGGAT	ATCCGCTTCGATCCCTGCTAGACT
3165	GGGGTCCCGCAACAACTAATGAAG	CTTCATTAGTTGTTGCGGGACCCC
3166	CAACCTCTTATGTGGTGTGCGCGA	TCGCGCACACCACATAAGAGGTTG
3167	CTCGCTGGGTTGCTGGAGTAGCAC	GTGCTACTCCAGCAACCCAGCGAG
3168	CGTTGTATTGTGCAACGCGAAGTT	AACTTCGCGTTGCACAATACAACG
3169	GGGCTCAAAGTGCCTGAGTCGAAA	TTTCGACTCAGGCACTTTGAGCCC
3170	CTGCTGTGCCCTCTCAGTGAGAGC	GCTCTCACTGAGAGGGCACAGCAG
3171	CGGACGTACTGTTCGGAGTCCTCA	TGAGGACTCCGAACAGTACGTCCG
3172	GTATACCACCATACCGGGACCGCA	TGCGGTCCCGGTATGGTGGTATAC

## TABLE 3

	Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
	17	TTCGCCGTCGTGTAGGCTTTTCAA	TTGAAAAGCCTACACGACGGCGAA
	18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
5	19	TACTTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
	20	ACTAGCATATTTCAGGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
	21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
	22	GCGGCCTTGGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
	23	GATCGTTAGAGGGACCTTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
10	24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
	25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCTGGGTAGTTTAT
	26	CATCGGTTCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
	27	GTCGGGCATAGAGCCGACCACCCT	AGGGTGGTCGGCTCTATGCCCGAC
	28	CTTGGGTCATGATTCACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
15	29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
	30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
	31	AGCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCAGTGGCT
	32	GGTTGTTTTGAGGCGTCCCACACT	AGTGTGGGACGCCTCAAAACAACC
	33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTCTTGGTCGA
20	34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
	35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTC
	36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTCATGACA
	37	ATATCGGGATTCGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT
	38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTTCGGTACGCTCGC
25	39	TTACCGGCAGCGGACTTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
	40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
	41	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
	42	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
	43	GGTACATGCACTACGCGCACTCGG	CCGAGTGCGCGTAGTGCATGTACC
30	44	AATTCATCTCGGACTCCCGCGGTA	TACCGCGGGAGTCCGAGATGAATT
	45	GCCAAATCTGGATTGGCAGGAATG	CATTCCTGCCAATCCAGATTTGGC
	46	TGCATTTTCGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
	47	CCGCTCAATTCACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
	48	CTCGGAAAGGTGCAACTTTGGTGT	ACACCAAAGTTGCACCTTTCCGAG
35	49	AATTCGACCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCGAATT
	50	GCCAGAGTCTCAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
	51	CCAACAACTGGAACGGGAACCCGC	GCGGGTTCCCGTTCCAGTTGTTGG
	52	GAGAACTGATCGCTGAGGGGCATG	CATGCCCCTCAGCGATCAGTTCTC
	53	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC

Г		TOACATCCAAATATCCTCCCCGAA	TTCGCGGACCATATTTGGATGTGA
ŀ	54	10/10/1100/00/11/100/00/	AATGAAGCGGTCACACCGGCAGAC
}	55	GIGIGGGGIGIGGGG	TGAGGGTGTTTATGCTCTGCGATG
}	56	CATCGCAGAGCATAAACACCCTCA	TCGCCTCTGCCATAGATACCAAC
ļ	57	GTTGGTATCTATGGCAGAGGCGGA	
5	58	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
. ,	59	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
	60	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
ļ	61	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCTGAGGCTCATCA
	62	CACCGCGGTGTTCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
10	63	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
	64	TTAACCTGCGTCTGCCCCTTTCCT	AGGAAAGGGCAGACGCAGGTTAA
ľ	65	AGGCGCGTTCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
Ì	66	TAGGGCGATGGCACGAAGCTTCAA	TTGAAGCTTCGTGCCATCGCCCTA
	67	TGCATAGAGCCAAAGTCGGCGATG	CATCGCCGACTTTGGCTCTATGCA
15	68	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGGCCACCTGCCTCTCAA
	69	TCCGCATTGTGAGAAAAAACGAGC	GCTCGTTTTTTCTCACAATGCGGA
	70	GGCGGTTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGCC
	71	GGTGAAAATTTCGTAGCCACGGGC	GCCCGTGGCTACGAAATTTTCACC
	72	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTCGG
20	73	CCAGTTTGGCCCAATTCGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
!	74	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCCTAATAGATCC
	75	CGGATGTCACCGTTTGGACTTTCA	TGAAAGTCCAAACGGTGACATCCG
	76	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTTGCGAT
	77	CAGGGCATGCAATAATCGAGGTTC	GAACCTCGATTATTGCATGCCCTG
25	78	CATGCGTTGATATATGGGCCCAAG	CTTGGGCCCATATATCAACGCATG
	79	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
	80	TTGTATGTCTGCCGACCGGCGACC	GGTCGCCGGTCGGCAGACATACAA
	81	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGGCGCCATC
•	82	ATGAGAATCGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
30	83	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCGGTCAGTGCAAAT
	84	CAGGGAGAACGGTTAAGTTCCCGT	ACGGGAACTTAACCGTTCTCCCTG
	85	AGGCCGGCGATCGAGGAGTTTGGT	ACCAAACTCCTCGATCGCCGGCCT
	86	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
	87	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCCTCGGCGTTGCAC
35	88	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
	89	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTTCA
	90	GCATCGTGTACATGACTGCCGCGA	TCGCGGCAGTCATGTACACGATGC
	91	CAGTGTTCTAACGGCGCGCGTGAA	TTCACGCGCGCCGTTAGAACACTG
	92	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
40	93	CGAAAAACTAGTGGGCTCGCCGCG	CGCGGCGAGCCCACTAGTTTTCG
	94	CTTTCAGGGGAACTGCCGGAGTCG	CGACTCCGGCAGTTCCCCTGAAAG

	95	TTGTGGCCTTCTTGTAAAGGCACG	CGTGCCTTTACAAGAAGGCCACAA
	96	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTCGTGGA
	97	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTTCGTGCAAGGTCG
	98	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
5	99	CGCTTTCGTGCGAATAGACGATGA	TCATCGTCTATTCGCACGAAAGCG
	100	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
	101	CACGCGCTTAGTCGCGATCGCATA	TATGCGATCGCGACTAAGCGCGTG
	102	CGGAGGGAGGAGCTAGCCTTCGA	TCGAAGGCTAGCTCCCTCCCG
	103	GCATCCGGCCTGTTGATGACGCCT	AGGCGTCATCAACAGGCCGGATGC
10	104	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
	105	CCTTCCAATGATTGCATACGCCCA	TGGGCGTATGCAATCATTGGAAGG
	106	AACACTTGATCAGGCGGGTCGTCT	AGACGACCCGCCTGATCAAGTGTT
	107	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTTACGGCCTTGATTCCA
	108	GCTCCCGTAACCTGTCCACCAGTG	CACTGGTGGACAGGTTACGGGAGC
15	109	AGTGGTGAATGGCCGCTACCCTGA	TCAGGGTAGCGGCCATTCACCACT
	110	TGTTGAAGCGAGCTAAAACGGCCA	TGGCCGTTTTAGCTCGCTTCAACA
	111	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
	2	TTCGAAGCGCACGTCCCTTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
	3	AACGCGTGGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACGCGTT
20	114	CACGAGATACCGGCGTAAGGGTGG	CCACCCTTACGCCGGTATCTCGTG
	115	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTTGCCGTAG
ļ	116	GTAGGGCGATGACGGCGAACTAC	GTAGTTCGCCCGTCATCGCCCTAC
	117	AATCGACCTCCGCACACATTCGCA	TGCGAATGTGTGCGGAGGTCGATT
į	118	GAGTCAGCATGGCGGCGGAGATTC	GAATCTCCGCCGCCATGCTGACTC
25	119	AGATAAAGACGCTGGCAACACGGG	CCCGTGTTGCCAGCGTCTTTATCT
	120	GGTACCTCAACGCGAACCACTTGT	ACAAGTGGTTCGCGTTGAGGTACC
	121	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTCTTGGGTAGCÇATCGCTT
	122	AGAGCTTATGCAGAACCAGGCGCC	GGCGCCTGGTTCTGCATAAGCTCT
ļ	123	ATCGGTCTCACGCAGGGTTGGATA	TATCCAACCCTGCGTGAGACCGAT
30	124	TAGGTTGCCCGCCAGAAGAAACAT	ATGTTTCTTCTGGCGGCAACCTA
	125	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTTGCAACAGCACCG
	126	TGATGAAAGTTTGCGGCAGGACAC	GTGTCCTGCCGCAAACTTTCATCA
	127	GTTGAGTGCAGGATAG	CTATCGCTGCATCCTGCACTCAAC
	128	AACATTGCGCGGTCCACCAGGGTT	AACCCTGGTGGACCGCGCAATGTT
35	129	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTCTAACTGCCC
	130	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTCACGGGGACCAGCTCGA
	131	GTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
	132	ACTGTTGGCTTGCTCCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
	133	AGGACCATTCGGAAGGCGAAGATA	TATCTTCGCCTTCCGAATGGTCCT
40	134	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
{	135	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTTCCGTTTATT

PCT/US01/26519

ſ	136	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
İ	137	CGCACCAAACTGAGTTTCCCAGAC	GTCTGGGAAACTCAGTTTGGTGCG
	138	ACCTGATCGTTCCCCTATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
ľ	139	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCTCGCCTCTGTTCC
5	140	CCCTGCCTTGGCGTGTCGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
	141	ACTCTGACACGCCAACTCCGGAAG	CTTCCGGAGTTGGCGTGTCAGAGT
	142	CTGACGGTTTTCATTCGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
	143	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
l	144	GCATGGCCAACTAGTGACTCGCAA	TTGCGAGTCACTAGTTGGCCATGC
10	145	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTCGCTTTACGGCCT
	146	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTCG
	147	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
	148	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
	149	AAAGGCTATTGAGTTGGTTGGGCG	CGCCCAACCAACTCAATAGCCTTT
15	150	GATGGCCTATTCGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
	151	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
	152	AATAACTCGCGCGGGTATGCTTCT	AGAAGCATACCCGCGCGAGTTATT
	153	GGAGGAGGTTTGTCTCGGAAAGCA	TGCTTTCCGAGACAAACCTCCTCC
	154	CTTTGGTATGGCACATGCTGCCCG	CGGGCAGCATGTGCCATACCAAAG
20	155	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTTCT
	156	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCGGTAGATT
	157	CGTGGCGGCCACAGTTTTTGGAGG	CCTCCAAAAACTGTGGCCGCCACG
	158	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACTGCAA
	159	GGCCCAAAGCCCCAGACCATTTTA	TAAAATGGTCTGGGGCTTTGGGCC
25	160	CGCCTGTCTTTGTCTCCGGACAAT	ATTGTCCGGAGACAAGACAGGCG
	161	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTTGGCCCCTGTTGCCTCA
	162	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTTCCGCT
	163	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
	164	GCACGTGAAGTTTAACCGCGATTC	GAATCGCGGTTAAACTTCACGTGC
30	<u>1</u> 65	AGCGGCAGAAACGTTCCTTGACGG	CCGTCAAGGAACGTTTCTGCCGCT
	166	100100/100/10/10	CGTGCAATCTCGTCTGCTCGACGA
	167	TCTTTGCCGCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
	168	TTTATGTGCCAAGGGGTTAACCGA	TCGGTTAACCCCTTGGCACATAAA
	169	TGTTACTGTGGTTCACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA
35	170	CGCGCCTCGCTAGACCTTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
	171	ACAAATGCGTGAGAGCTCCCAACT	AGTTGGGAGCTCTCACGCATTTGT
	172	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
	173	CAAATAACGCCGCTGAATCGGCGT	ACGCCGATTCAGCGCGCGTTATTTG
	174	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
40	175	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTTGCTCGTGTTCA
	176	CAGCAGATCCTTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG

-			<del></del>
	177	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACTCACCAGGTTCC
Ļ	178	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
ļ	179	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
	180	TGTCAGAGCCCGCGACTCAGACGG	CCGTCTGAGTCGCGGGCTCTGACA
5	181	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
l.	182	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTCGCCGAGGACTTCTGAG
L	183	ATCCTTTTATCTACTCCGCGGCGA	TCGCCGCGGAGTAGATAAAAGGAT
	184	AGGCGTGCAGCAACAGGATAAACC	GGTTTATCCTGTTGCTGCACGCCT
	185	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
10	186	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
1	187	TCCACTATAACTGCGGGTCCGTGT	ACACGGACCCGCAGTTATAGTGGA
	188	GCCCAGTCGGCTCTAACAAGTTCG	CGAACTTGTTAGAGCCGACTGGGC
	189	CGGAACGGATAATCGGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
	190	TAAAATAAGCGCCTGGCGGAGGA	TCCTCCGCCAGGCGCTTATTTTA
15	191	GCGCACTCGTGAAACCTTTCTCGC	GCGAGAAAGGTTTCACGAGTGCGC
	192	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAACT
	193	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
[	194	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGCGAA
	195	TAACCCGATTTTTGCGACTCTGCC	GGCAGAGTCGCAAAAATCGGGTTA
20	196	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTTGCAATGCGACG
	197	GAGCTGACGTCACCATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
	198	GGAGGCTGGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCAGCCTCC
	199	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCGGTTCCCACAA
	200	CCCTCGCACTGTGTTCACCCTCTT	AAGAGGGTGAACACAGTGCGAGGG
25	201	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTCGAGTCAATGA
	202	ACAGGGGTTGGCCTTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
	203	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
	204	GGGCCGTGGTCACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
	205	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTCGTTTCATGTCCGCGC
30	206	CTTATTGGGTGCCGGTGTCGGATT	AATCCGACACCGGCACCCAATAAG
Ĺ	207	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTTGGTAACCGCCCC
L	4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
	5	ATGGCCGTGCTGGGGACAAGTCAA	TTGACTTGTCCCCAGCACGGCCAT
	210	ACGAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTTCGT
35	211	CCAAGTACACCGCACGCATGTTTA	TAAACATGCGTGCGGTGTACTTGG
. [	212	ATCGTGCGTGGAGTGTCGCATCTA	TAGATGCGACACTCCACGCACGAT
	213	TCCAGATACCGCCCGAACTTTGA	TCAAAGTTCGGGGCGGTATCTGGA
[	214	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
[	215	TTGAAATTGCTCTGCCGTCAGTCA	TGACTGACGGCAGAGCAATTTCAA
40	216	AGTCAGGCGAGATGTTCAGGCAGC	GCTGCCTGAACATCTCGCCTGACT
	217	ACAAGCCGACGTTAAGCCCGCCCA	TGGGCGGCTTAACGTCGGCTTGT
_			

ſ	218	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
-	219		CATTGGAGGGGATGTGTGTCTCAC
F	220	CGACGGATGCAGAGTTCAGTGGTC	GACCACTGAACTCTGCATCCGTCG
	221	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
5	222	TTAGCAAAGCGGCGCCGTTAGCAA	TTGCTAACGGCGCCGCTTTGCTAA
	223	CCCGACACGGGTCAGCGTAATAAT	ATTATTACGCTGACCCGTGTCGGG
	224	GCGACGGCCCTGAGGTATGTCGTC	GACGACATACCTCAGGGCCGTCGC
<b>-</b>	225	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTTG
Ī	226	TCTCGAAGCACAGCCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
10	227	ATGCTAACCGTTGGCCATGGAACT	AGTTCCATGGCCAACGGTTAGCAT
	228	CTTGCGGAGTGTTAGCCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
•	229	TGCTCCCTAGGCGCTCGGAGGAGT	ACTCCTCCGAGCGCCTAGGGAGCA
	230	CCAATGCCTTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
Ţ	231	AGCAGATAACGTCCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
15	232	TTGACCATTACGTGTTGCGCCCAT	ATGGGCGCAACACGTAATGGTCAA
Ī	233	TCGCGTATTTGCGGAATTCGTCTG	CAGACGAATTCCGCAAATACGCGA
	234	CTGCGTGTCAACAATGTCCCGCAG	CTGCGGACATTGTTGACACGCAG
Ī	235	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCGTGGCACCAGA
	236	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCCGGAG
20	237	TTTTCGTGATTGCCCGGAGGAGGC	GCCTCCTCCGGGCAATCACGAAAA
	238	TCGGGATGTAGCTGGGGCTACCGG	CCGGTAGCCCCAGCTACATCCCGA
	239	CGAGCCAACGCAAACACGTCCTTG	CAAGGACGTGTTTGCGTTGGCTCG
ĺ	240	GCAAAGCCTTTGTGGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTTGC
	241	ATTCGACCGGAAATGAGGTCTTCG	CGAAGACCTCATTTCCGGTCGAAT
25	242	TTCGCTTGCTGAGTTGCTCTGTTC	GAACAGAGCAACTCAGCAAGCGAA
	243	CGCGTGAAGACCCCATTCCCGAGT	ACTCGGGAATGGGGTCTTCACGCG
	244	AACCGTATTCGCGGTCACTTGTGG	CCACAAGTGACCGCGAATACGGTT
	245	GGGGCCAACCGTTTCGAGGCGTAT	ATACGCCTCGAAACGGTTGGCCCC
	246	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTTGGACTGCCAGCCGAA
30	247	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCACACCC
	248	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCCTCGC
	249	ACGCACGCGTGACCGAAGTTGCTG	CAGCAACTTCGGTCACGCGTGCGT
	250	TAAAAGGTCGCTTTGAAAGGGGGA	TCCCCCTTTCAAAGCGACCTTTTA
	251	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
35	252	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTATACCTCC
	253	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
	254	TGTGGTTAAAGCGTCCGTTCAACG	CGTTGAACGGACGCTTTAACCACA
	255	CGTTCACACCGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
	256	CCTATCCCGGCGAGAACTTCTGTG	CACAGAAGTTCTCGCCGGGATAGG
40	257	GTCTGCACTCACGCAGCGGAGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
	258	GCACGAGTTGGTGCTCGGCAGATT	AATCTGCCGAGCACCAACTCGTGC

[	259	AACGTCGCACGACACGTTCGTC	GACGAACGTGTGTCGTGCGACGTT
	260	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
ľ	261	TCACGTTTTCGTCTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
ŀ	262	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
5	263	AGGTGGTGTGGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACCT
	264	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTTCGATCCAG
	265	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
	266	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTTCTCCGCAGGATC
	267	TACGTGTGGAGATGCCCCGAACCG	CGGTTCGGGGCATCTCCACACGTA
10	268	GCGCTATGTCAATCGTGGGCGTAG	CTACGCCCACGATTGACATAGCGC
	269	AGCGAGGTTTCTAGCGTCGACACC	GGTGTCGACGCTAGAAACCTCGCT
	270	ACCCAGGTTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
	271	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
	272	AGGCCGATTTCACCCGCCAATTGC	GCAATTGGCGGGTGAAATCGGCCT
15	273	GAGCCCTCACTCCTTGCCCTTTGA	TCAAAGGCAAGGAGTGAGGCTC
	274	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
	275	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
ĺ	276	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
	277	CGAATGGGTCTGGACCTTGCATAG	CTATGCAAGGTCCAGACCCATTCG
20	278	GTGCACCAGACATTCGAACTCGGA	TCCGAGTTCGAATGTCTGGTGCAC
	279	AGAGGCCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
	280	AACGCCTGTTCAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
	281	AAGGCTCAACACGCCTATGTGCGC	GCGCACATAGGCGTGTTGAGCCTT
	282	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
25	283	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTTACATGGGACAT
	284	ATGGAGTCTGCTCACGCCCAAAGG	CCTTTGGGCGTGAGCAGACTCCAT
	285	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTTGGAGGCCG
	286	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
	287	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
30	288	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
	289	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
	290	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
	291	CGCACCGTAAGTAGATTTGCCCGC	GCGGGCAAATCTACTTACGGTGCG
	292	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
<b>3</b> 5	293	TCCGCCTTTTTGGTTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
	294	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
	295	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTTGGCTGCTCGG
	296	CATAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTTATG
	297	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
40	298	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTTCGCC
	299	GGGATGCGTATTTTAGCGAACACG	CGTGTTCGCTAAAATACGCATCCC

	300	TGGGATTCAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
	301	CCCGATATTCGCCCGGCCTATTCG	CGAATAGGCCGGGCGAATATCGGG
	302	CGAGAAGATGCCTCACGCAACCAA	TTGGTTGCGTGAGGCATCTTCTCG
	303	AACCTTGACCCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
5	(	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCCGTTGCAA
	7	CGCATAGGTTGCCGATTTCGTCAA	TTGACGAAATCGGCAACCTATGCG
	306	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAGC
	307	CCCTCCATGTTCTTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
	308	TTGATGGGCGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCCATCAA
10	309	ATTGTGAGATGCGCCAAATTCCCC	GGGGAATTTGGCGCATCTCACAAT
	310	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
	311	ACTCCACTCCTCGGTGGCAAACTA	TAGTTTGCCACCGAGGAGTGGAGT
	312	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCCAGA
	313	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCGTACCGGAGTTGAGA
15	314	TTGCGTGGTCAAAGGCGCAACGTG	CACGTTGCGCCTTTGACCACGCAA
	315	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
	316	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
	317	AGGCGCACATGTACGGACATTCAG	CTGAATGTCCGTACATGTGCGCCT
	318	GATGAGTGGCACGTCGGTGTGTAA	TTACACACCGACGTGCCACTCATC
20	319	TGATCCATATTGTCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
	320	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCCGGCAGGT
	321	AGCATTGGCGTTTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
	322	GGTAATATTCAGCGCGACCGCTCA	TGAGCGGTCGCGCTGAATATTACC
	323	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
25	324	TAGGTCACGATGCGTTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
	325	ACTGCCCGTACCTCTGGTTCTGGC	GCCAGAACCAGAGGTACGGGCAGT
	326	CCTTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACTTCAGGCCAAAGG
	327	GTGCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
	328	AGGCGCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCCACGTAGCGCCT
30	329	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
	330	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
	331	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
	332	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTTCGTAGGGCCGGACC
!	333	CCGTGTGGCTGGAGATTCGTGTGA	TCACACGAATCTCCAGCCACACGG
35	334	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
	335	GGGTCAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
	336	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTCGACTTCACGGC
	337	GCCACCACCAGTGCATTCAGGTA	TACCTGAATGCACTGGGTGGTGGC
	338	GAGCTTAGTTTGCGGTCATCGGGC	GCCCGATGACCGCAAACTAAGCTC
40	339	TGTTTGCCGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
	340	GCTCCGCTGGATGTGCCGGTTTAG	CTAAACCGGCACATCCAGCGGAGC

	·		<del></del>
	341	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
	342	CTACGCTCTACCAGTTGCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
	343	GTGCCTCCTGCTGTATTTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
	344	TTGCGACTCGACTTGGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
5	345	TCTGGGAGCTGTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
	346	TGCACGCGGAACTCCCTTTACCAT	ATGGTAAAGGGAGTTCCGCGTGCA
	347	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTTCGATTCATTTGCTGCCA
	348	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAGTT
	349	AGACGATTACGCTGGACGCCGTCG	CGACGCGTCCAGCGTAATCGTCT
10	350	ATGCCCTCCTTCATGGAAAGGGTT	AACCCTTTCCATGAAGGAGGGCAT
	351	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
	352	ATAGCGGAGTTTGGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
	353	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
	354	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAGGTAATC
15	355	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
	356	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
	357	TGAGAGAGGCGTTGGTTAAGGCAA	TTGCCTTAACCAACGCCTCTCTCA
	358	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTTCGCCTGCTT
	359	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCCGTCTGTCGTGA
20	360	AAGCAATTTGGCCTCGTTTTGTGA	TCACAAAACGAGGCCAAATTGCTT
	361	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
	362	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGGACAGAACGGATTCACAA
	363	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCCA
	364	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
25	365	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTCGGTGCA
	366	GCCAGTATTCTCGGGTGTTGGACG	CGTCCAACACCCGAGAATACTGGC
i	367	TCGCTACCTAAGACCGGGCCATAC	GTATGGCCCGGTCTTAGGTAGCGA
	368	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCGTCAATGCCA
	369	CGCGTCCCAGCGCCCTTGGAGTAT	ATACTCCAAGGGCGCTGGGACGCG
30	370	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCGGTAGGCTTCAT
	371	CCAGACAGATGGCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
	372	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTTGAGATGGTCCCACGCCA
	373	CCGCATGGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCGG
	374	GCCCACTCGTCAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGGC
35	375	ATTACGGTCGTGATCCAGAAAGCG	CGCTTTCTGGATCACGACCGTAAT
	376	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
ĺ	377	GGGCCGCATTCTTGATGTCCATTC	GAATGGACATCAAGAATGCGGCCC
	378	CCTCGGATGTGGGCTCTCGCCTAG	CTAGGCGAGAGCCCACATCCGAGG
	379	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCTA
40	380	CGATACGAACGAGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
	381	TACGCCGGTTAGCACGGTGCGCTA	TAGCGCACCGTGCTAACCGGCGTA

	382		CATACGATGTCCGGGCCGTGTCGC	GCGACACGGCCCGGACATCGTATG
	383		ATCCGCAGTTGTATGGCGCGTTAT	ATAACGCGCCATACAACTGCGGAT
	384		GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTTGTCCCTTACCC
	385		ATTGGAGTGTTTTGGTGAATCCGC	GCGGATTCACCAAAACACTCCAAT
5	386		GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTTC
	387		GCCGTCAAGCTTAAGGTTTTGGGC	GCCCAAAACCTTAAGCTTGACGGC
	388		ACCTGCTTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
ĺ	389		AATCGTGGGCGCAGCAAACGTATA	TATACGTTTGCTGCGCCCACGATT
	390		GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
10	391		ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
	392		ATCCGGGTGGGCGATACAAGAGAT	ATCTCTTGTATCGCCCACCCGGAT
	393		TTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394		GCAAAGTCCCACTGGCAAGCCGAT	ATCGGCTTGCCAGTGGGACTTTGC
	395		CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCG
15	396		CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACTGCGCTCATGAG
	397		CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
	398		TCAAAGGCTCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTTGA
	399		TCCGCTAATTTCCAATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
		8	CCGTTTGCGGTCGTCCTTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
20		9	TTCGCTTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
	402		CTTAGTTGGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
	403		GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
	404		CCGATTACAAATTGACTGACCGCA	TGCGGTCAGTCAATTTGTAATCGG
	405		AGACGTACGTGAGCCTCCCGTGTC	GACACGGGAGGCTCACGTACGTCT
25	406		AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATÇGCTCCATT
	· 407		GGAGGCGCTGTACTGATAGGCGTA	TACGCCTATCAGTACAGCGCCTCC
	408		TGTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTCAAAAACA
	409		CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
	410		GCCGCTAATCCGACACCCAGTTT	AAACTGGGTGTCGGATTAGCGGGC
30	411		CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
	412		GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTC
	413		AACCAGCCGCAGTAGCTTACGTCG	CGACGTAAGCTACTGCGGCTGGTT
	414		TTTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
	415		GGTGCTCCGTTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
35	416		CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCCTAAGCGG
	417		TAAGACATACCGACGCCCTTGCCT	AGGCAAGGCCGTCGGTATGTCTTA
	418		GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
	419		TAAAAGTTTCGCGGAGGTCGGGCT	AGCCCGACCTCCGCGAAACTTTTA
	420		CGGTCCAGACGAGCTGAGTTCGGC	GCCGAACTCAGCTCGTCTGGACCG
40	421		CGGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
	422		GCTTGGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGGCATCCAAGC

PCT/US01/26519

Г	423	AGCGGGATCCCAGAGTTTCGAAAA	TTTTCGAAACTCTGGGATCCCGCT
}	424	GAGCTTGAGAGCGAGGTCATCCTC	GAGGATGACCTCGCTCTCAAGCTC
F	425	GCATCGGCCGTTTTGACCATATTC	GAATATGGTCAAAACGGCCGATGC
	426	CATAGCGCTGCACGTTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
5	427	ACCCGACAACCACCAATTCAAAAA	TTTTGAATTGGTGGTTGTCGGGT
Ť	428	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
F	429	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGCGG
ļ	430	GACATCGGGAGCCGGAAACATGAG	CTCATGTTTCCGGCTCCCGATGTC
ŀ	431	TCGTGTAGACTCGGCGACAGGCGT	ACGCCTGTCGCCGAGTCTACACGA
10	432	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
<u> </u>	433	ACAAGCGAACCCGAGTTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
Ī	434	GCATGAGACTCCGCGAAGACATGT	ACATGTCTTCGCGGAGTCTCATGC
	435	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA
ļ	436	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
15	437	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCCAGTCCTGGCGAC
ľ	438	ACCGATAAGACTTGCATCCGAACG	CGTTCGGATGCAAGTCTTATCGGT
Ī	439	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
Ī	440	ACGCGCCCTGCATCTCGTATTTAA	TTAAATACGAGATGCAGGGCGCGT
	441	AGACCGCATCAATTGGCGCGTACC	GGTACGCGCCAATTGATGCGGTCT
20	442	AGAGGCTTGGCAAGTAGGGACCCT	AGGGTCCCTACTTGCCAAGCCTCT
	443	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
	444	GCTGGACTTAGTCGTGTTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
	445	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
	446	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
25	447	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
	448	ACCCATCGCCGGAAAGCGATGTTG	CAACATCGCTTTCCGGCGATGGGT
	449	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
	450	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAGT
	451 .	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
30	452	AACAGTTCCTCTTTTTCCTGGCGC	GCGCCAGGAAAAAGAGGAACTGTT
	453	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTGACAACATGGAGGACG
	454	TGCGCAGACCTACCTGTCTTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
	455	ATGGACGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
	456	TGAACGCTTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
<b>3</b> 5	457	TGAACCCTGCCGCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
	458	GTTCTTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
	459	AGGGTACGTGTCGCAGCTTCGCGT	ACGCGAAGCTGCGACACGTACCCT
	460	ACCCTTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
i	461	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTTCAATCCTTGTCCC
40	462	TGTCGTTGCTCCCGAGTACCATTG	CAATGGTACTCGGGAGCAACGACA
	463	GTTGTCCGAGACGTTTGTGTCAGC	GCTGACACAACGTCTCGGACAAC

_				
	464		00100.0110.01010.010	AGCGGTTCGTGAGTGTTCACCAGC
[	465		GCAGACAGGGCAAATCGGTGCAAA	TTTGCACCGATTTGCCCTGTCTGC
ſ	466		CCCATCACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
ſ	467		GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAGC
5	468		GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATTC
	469		CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACTTCCGCTGG
	470		TTTTTACCGACCACTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
	471		GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTCATCACATAGCCGC
Ī	472		AGTACACGGGCGTGTTAGCGCTCC	GGAGCGCTAACACGCCCGTGTACT
10	·473		TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACACACAGGA
Ī	474		CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
	475		AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
Ì	476		CATCTTTCGCGGAGTTTATTGCGG	CCGCAATAAACTCCGCGAAAGATG
	477		CTTCGTCCGGTTAGTGCGACAGCA	TGCTGTCGCACTAACCGGACGAAG
15	478		CTCACGAAAACGTGGGCCCGAAAT	ATTTCGGGCCCACGTTTTCGTGAG
Ì	479	口	CGCAGCAGCTGAACTCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
	480		AGGAGACATACGCCCAAATGGTGC	GCACCATTTGGGCGTATGTCTCCT
	481		ATTGAGAACTCGTGCGGGAGTTTG	CAAACTCCCGCACGAGTTCTCAAT
<b>!</b>	482		CTCTTTGTAGGCCCAGGAGGAGCA	TGCTCCTCGGGCCTACAAAGAG
20	483		GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCTGCGGC
Ì	484		AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTTT
Ì	485		CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
	486		CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
	487		CTGACCTTTGGGGGTTAGTGCGGT	ACCGCACTAACCCCCAAAGGTCAG
25	488		GGAAATGAGAACCTTACCCCAGCG	CGCTGGGGTAAGGTTCTCATTTCC
	489		AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
	490		TGGAGAGAGACTTCGGCCATTGTT	AACAATGGCCGAAGTCTCTCCA
	491		TTGCGCTCATTGGATCTTGTCAGG	CCTGACAAGATCCAATGAGCGCAA
	492		AGCGCGTTAAAGCACGGCAACATT	AATGTTGCCGTGCTTTAACGCGCT
30	493		AGCCAGTAAACTGTGGGCGGCTGT	ACAGCCGCCCACAGTTTACTGGCT
	494		CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
	495		GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
		10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
		11	TTGCCGCACCGTCCGTCATCTCAA	TTGAGATGACGGACGGTGCGGCAA
35	498		AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
	499		AAAGGAGCTTTCGCCCAACGTACC	GGTACGTTGGGCGAAAGCTCCTTT
	500		AGTGATTGTGCCACTCCACAGCTC	GAGCTGTGGAGTGGCACAATCACT
	501		GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTCAACCCTCGACGATCGC
	502		GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
40	503		GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
	504		CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG

ſ	505	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
-	506	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
	507	TGCACACTAGGTCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
-	508	AGGGAACCGCGTTCAAACTCAGTT	AACTGAGTTTGAACGCGGTTCCCT
5	509	GAATTACAACCACCGCTCGTGTT	AACACGAGCGGGTGGTTGTAATTC
Ĭ.	510	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTTCGTGAGCACTGAA
<u> </u>	511	TTAGTTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA
Ī	512	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
Ì	513	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
10	514	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTCGCCTTGTTACTTTA
	515	TAATGATTTTAGTCGCGGGGTGGG	CCCACCCGCGACTAAAATCATTA
ļ	516	GGCTACTCTAAGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
İ	517	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
	518	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCTAACGCCC
15	519	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
	520	GAGATGTGTAAACGTGCAGGCACC	GGTGCCTGCACGTTTACACATCTC
	521	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCCACGAGCTA
	522	GTGTCGGCGCTATTTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
	523	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
20	524	TTCCGAAACTAAGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTTCGGAA
	525	GCAAACCCGGTAACCCGAGAGTTC	GAACTCTCGGGTTACCGGGTTTGC
	526	GCAAATGGCGTCATGCACGAACGT	ACGTTCGTGCATGACGCCATTTGC
	527	AGTACTTTCGCGCCCAGTTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
	528	AAGATCTGCGAGGCATCCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
25	529	GCAAGTGTATCGCACAGTGCGATT	AATCGCACTGTGCGATACACTTGC
	530	CCGACAAGGCCTCAATTCATTCTG	CAGAATGAATTGAGGCCTTGTCGG
	531	GTCTCGTCTCAACTTTAAGGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
	532	ATCCAGAGATCCGTTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
	533	GTCACCAGGAGGGAAGTTTCACCC	GGGTGAAACTTCCCTCCTGGTGAC
30	534	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCTGACGGAA
	535	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
	536	TGGGCCGCTTGGCGCTTTCATAGA	TCTATGAAAGCGCCAAGCGGCCCA
	537	CCTAGCGCGAGCTTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
	538	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATATTCCTGGCCAA
35	539	GTCTGCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC
,	540	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
	541	ACGTCAGCGATTGTGGCGAAATAT	ATATTTCGCCACAATCGCTGACGT
	542	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
	543	ATACCTCCGCAGAACCATTCCGTT	AACGGAATGGTTCTGCGGAGGTAT
40	544	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAACT
	545	TGCTCAATTTGTGCAGAAAACGCC	GGCGTTTTCTGCACAAATTGAGCA

ſ	546	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCTCGCGATAA
	547	GACGCGACGTGAGTAGTGGAAGCG	CGCTTCCACTACTCACGTCGCGTC
	548	ATGGTAGGGCATTGGGCTTTCCT	AGGAAAGCCCAATGCCCCTACCAT
	549	CCAAATATAGCCGCGCGGAGACAT	ATGTCTCCGCGCGGCTATATTTGG
5	550	GCAAACCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTTGC
ļ	551	TAGCGTCTTGCGTGAAACCATGGG	CCCATGGTTTCACGCAAGACGCTA
	552	CCACCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTCGGGGTGG
	553	ACGAGCACTGAAGGCTGCTTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
Ţ	554	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
10	555	TGATCCCGGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGGATCA
•	556	GGCCCGACACTACAGGGTAATCA	TGATTACCCTGTAGTGTCGGGGCC
	557	GGCTCCAGGGCGAGATTATGAATG	CATTCATAATCTCGCCCTGGAGCC
•	558	CAAAATCCGATGGGCGGAAAATTA	TAATTTTCCGCCCATCGGATTTTG
	559	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCTCCCTATGCGCCTGTG
15	560	TAGCTATTGCCCCGATGGGCTACT	AGTAGCCCATCGGGGCAATAGCTA
	561	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
	562	GACGCTGTGGCTCGGAAACTGTTC	GAACAGTTTCCGAGCCACAGCGTC
	563	CCTGGGTTCGCCGCGTGGTAACTG	CAGTTACCACGCGGCGAACCCAGG
	564	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGGCTACGCGGGAA
20	565	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
·	566	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTTCGGTGCCATTTTT
	567	CATTCCGCGCGAGTTGAAATCCAG	CTGGATTTCAACTCGCGCGGAATG
	568	ACGCACGTTTTTTGGCACGGTTAA	TTAACCGTGCCAAAAAACGTGCGT
	569	TGTCCATGACGTCGTTTCTCTGGT	ACCAGAGAAACGACGTCATGGACA
25	570	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATACGAGTCCGACTGAGA
	571	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTTGGAG
	572	TTCAACCAAGCGGGGTGTTCGTGA	TCACGAACACCCCGCTTGGTTGAA
	573	GGTGTCGGAGGGTGGTGACCTCGA	TCGAGGTCACCACCCTCCGACACC
	574	AGCGCTTTTGGTCATGATTTGCAA	TTGCAAATCATGACCAAAAGCGCT
30	575	CCGAGGACTTACGTCTGCCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
	576	GCCCAATCCAGTTCTTATGCGCCC	GGGCGCATAAGAACTGGATTGGGC
	577	CGGGTTAACCCACGCAAGTTATGA	TCATAACTTGCGTGGGTTAACCCG
	578	TGATTAGCGCTCAATACACGCGTG	CACGCGTGTATTGAGCGCTAATCA
	579	AAGGCAGACCTTTGGTTCGACTG	CAGTCGAACCAAAGGTCTGCCCTT
35	580	GCGCCACAAGATTCACATGTCATT	AATGACATGTGAATCTTGTGGCGC
**	581	GCCATGTTCAAGGGCCTTTCGAAG	CTTCGAAAGGCCCTTGAACATGGC
	582	CGCGGTGTTTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
	583	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACACAATGTTG
	584	CGATACGCGCCGGTTTGTTAAATC	GATTTAACAAACCGGCGCGTATCG
40	585	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTTATAGCC
	586	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTTACCCA

_				
	587		GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCGCGGGCCGATGAAGAC
	588		GCGACACCCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
	589		GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCGGACCCTGCTAC
	590		TCGCCAACGCAGGGTAACTGCCAT	ATGGCAGTTACCCTGCGTTGGCGA
5	591	_	ACTCCGAAGCTTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
		12	CATCGTCCCTTTCGATGGGATCAA	TTGATCCCATCGAAAGGGACGATG
		13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTCGTCAGCTCCCGTGC
	594		ATCATCCCACGGCAGAGTGAAGAG	CTCTTCACTCTGCCGTGGGATGAT
	595		CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
10	596		CGGTCTCAGCAACACTGTCGCAAA	TTTGCGACAGTGTTGCTGAGACCG
	597		CGAACGTTCTCCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCG
	598		ATACCGTGCGACAAGCCCCTCTGA	TCAGAGGGGCTTGTCGCACGGTAT
	599		AGCTCATTCCCGAGACGGAACACC	GGTGTTCCGTCTCGGGAATGAGCT
	600		TTTCATGCGGCCGTTGCAAATCAT	ATGATTTGCAACGGCCGCATGAAA
15	601		ACTCGAACGGACGTTCAATTCCCA	TGGGAATTGAACGTCCGTTCGAGT
	602		CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
	603		CCGCGAGTGTGGATGGCGTGTTGA	TCAACACGCCATCCACACTCGCGG
	604		AATGTGTCGGTCCTAAGCCGGGTG	CACCCGGCTTAGGACCGACACATT
	605		TAAGACGAGCCTGCACAGCTTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
20	606		GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCCACGCC
	607		TGCTCCATGTTAGGAACGCACCAC	GTGGTGCGTTCCTAACATGGAGCA
	608		CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
	609		CCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATACGCGCGG
	610		AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
25	611		ACTTGCATCGCTGGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
	612		TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
	613		ATGCAGATGAACAAATCGCCGAAT	ATTCGGCGATTTGTTCATCTGCAT
	614		GCAATTCTGGGCCATGTATTCGTC	GACGAATACATGGCCCAGAATTGC
	615		AGGGTTCCTTACGCGTCGACATGG	CCATGTCGACGCGTAAGGAACCCT
30	616		GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
l	617		TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
. [	618		TTATAGCAGTGCGCCAATGCTTCG	CGAAGCATTGGCGCACTGCTATAA
Į.	619		CGAACAGTGCTGTCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
]	620		TCCGCGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCGGA
35	621		CATTAGCCCGCTGTCGGTAACTGT	ACAGTTACCGACAGCGGGCTAATG
	622		GGAAAGAAACTCAGACGCGCAATG	CATTGCGCGTCTGAGTTTCTTTCC
	623		CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
	624		CATGATCCTCTGTTTCACCCGCGG	CCGCGGTGAAACAGAGGATCATG
	625		GGCGTAGCGCTCTAAAAGCTTCGG	CCGAAGCTTTTAGAGCGCTACGCC
40	626		AGTGATGCCATCAGGCCCGTATAC	GTATACGGGCCTGATGGCATCACT
[	627		TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTTCCATA

ſ	628	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
ľ	629	ACTCGCTGGAATTTGCGCTGACAC	GTGTCAGCGCAAATTCCAGCGAGT
Ţ	630	CAGGCCCGAACCACGCGGTTACAG	CTGTAACCGCGTGGTTCGGGCCTG
	631	GGCGCAATGGGCGCATAAATACTA	TAGTATTTATGCGCCCATTGCGCC
5	632	GGTCAATTCGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
ļ	633	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
	634	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCCTATTGCGCTATGCGCGG
T	635	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
[	636	GCGTTCGCAATTCACGGGCCCTTA	TAAGGCCCGTGAATTGCGAACGC
10	637	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
Ī	638	AGGTGCAAGTGCAAGGCGAGAGGC	GCCTCTCGCCTTGCACCT
Ţ	639	CGCCAGTTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAAACTGGCG
Ī	640	GCTTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
	641	GTGCTTGACGAAGAGGCGAAATGT	ACATTTCGCCTCTTCGTCAAGCAC
15	642	CAGTCCGTGCGCTTCATGTCCTCA	TGAGGACATGAAGCGCACGGACTG
į	643	TACGCGTAAGAGCCTACCCTCGCG	CGCGAGGGTAGGCTCTTACGCGTA
Ī	644	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAAGACTCGCC
	645	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTTCGCTTTGG
Ţ	646	GCCGTAGGTTGCTCTTCACCGAAC	GTTCGGTGAAGAGCAACCTACGGC
20	647	AAATCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATTT
	648	GGCTTCGCACCCGTACCAATTTAG	CTAAATTGGTACGGGTGCGAAGCC
	649	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGGACTCTACA
	650	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
	651	TGTACTCGGCAGGCGCAATAGATT	AATCTATTGCGCCTGCCGAGTACA
25	652	AACGGGTATCGGAAGCGTAAAAGC	GCTTTTACGCTTCCGATACCCGTT
	653	CGGACTGCCCGTTTGCAAGTTGAG	CTCAACTTGCAAACGGGCAGTCCG
	654	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
	655	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTTCGATGCAT
	656	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
30	657	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
	658	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTTAGGACGATGAG
	659	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
	660	CCGTGGGAGGGAATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
	661	AAATTCTCGTTGGTGACGGCTCAT	ATGAGCCGTCACCAACGAGAATTT
35	662	TTGCTCTTATCCTTGTCCTGGGCG	CGCCCAGGACAAGGATAAGAGCAA
	. 663	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTTAA
	664	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTTAGTCGCG
	665	GCTCGATTTCACGGCCCGTTGTTC	GAACAACGGGCCGTGAAATCGAGC
	666	AGCAGAGTGCGTTGCAGAGGCTAA	TTAGCCTCTGCAACGCACTCTGCT
40	667	TGGAGGTGAGGACGTGCACTA	TAGTGCACGTCGTCCTCACCTCCA
	668	AACCGTTTAGGGTACATTCGCGGT	ACCGCGAATGTACCCTAAACGGTT
		<del>-</del>	

_			
[		MICHIOCOTOCOCTOTICITO	CAAACTGTGAGCCGAGCGATCATA
	670	GACTTTTTGCGGAAACGTCATGGT	ACCATGACGTTTCCGCAAAAAGTC
	671	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
The state of the s	672	CTATGGTTTGCACTGCGCCGTCGA	TCGACGCCACAGTGCAAACCATAG
5	673	AGCAGGGAAATTCAATCGTTCGCA	TGCGAACGATTGAATTTCCCTGCT
	674	CCTAACCGAGCGCTTAGCATTTCC	GGAAATGCTAAGCGCTCGGTTAGG
Ī	675	CCCGACCCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
	676	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
	677	GATGCTCGCCGTGTTTAGTTCACG	CGTGAACTAAACACGGCGAGCATC
10	678	TCGGATGACGAGTTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
	679	ATGCGGTCTACTTTCTCGATCGGG	CCCGATCGAGAAAGTAGACCGCAT
ľ	680	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
	681	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTAATTAAGTT
Ī	682	GTGACCGCGAACTTGTTCCGACAG	CTGTCGGAACAAGTTCGCGGTCAC
15	683	TGCGGATTACCGATTCGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
	684	TGATAGGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
	685	TCGCTCCGTAGCGATTCATCGTAG	CTACGATGAATCGCTACGGAGCGA
	686	TGTCAGCTGGTAGCCTCCGTTTGA	TCAAACGGAGGCTACCAGCTGACA
Ì	687	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
20	14	AGACGCACCGCAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
	15	CGTGTAGGGGTCCCGTGCTGTCAA	TTGACAGCACGGGACCCCTACACG
	690	GTCGCATTCTGCACTGGCTTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
	691	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
	692	AAGGGACCTTGGGTGACGGCGAGA	TCTCGCCGTCACCCAAGGTCCCTT
25	693	TCAAATGGCCACCGCGTGTCATTC	GAATGACACGCGGTGGCCATTTGA
	694	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTTATTGGTCGTCGGAG
	695	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTCTACGGGAATAGCC
	696	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
	697	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
30	698	GCCACAGAGTTTTAGCAGGGACCC	GGGTCCCTGCTAAAACTCTGTGGC
	699	CCCACGCTTTCCGACCACTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
	700	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGCATTGTGTCAATG
	701	AGCCACTCGACAGGGTTCCAAAGC	GCTTTGGAACCCTGTCGAGTGGCT
,	702	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTTGCTCATCCTG
35	703	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
•	704	GGTGTTCGGCCTAAACTCTTTCGG	CCGAAAGAGTTTAGGCCGAACACC
	705	TTTAGTCGGACCCTGTGGCAATTC	GAATTGCCACAGGGTCCGACTAAA
	706	CACACGTTTCCGACCAGCCTGAAC	GTTCAGGCTGGTCGGAAACGTGTG
	707	CTGGACGAACTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
40	708	TTCACAATCCGCCGAAAACTGACC	GGTCAGTTTTCGGCGGATTGTGAA
	709	AACAGGATATCCGCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT

	710	TACGTCGGATCCATTGCGCCGAGT	ACTCGGCGCAATGGATCCGACGTA
	711	CATGGATCTCTCGGTTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
	712	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
	713	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
5	714	CCGCGTTGCACCACTTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
	715	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGCTTGTCACGTCCAA
	716	CTGAATCGCGCAAGTAAATGGGGG	CCCCATTTACTTGCGCGATTCAG
	717	GATAAGGTCCACCAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
	718	CTAACAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
10	719	GGTAACCTGGGTGCTTGCAGGTTA	TAACCTGCAAGCACCCAGGTTACC
	720	ATCGGAGCCACCATTCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
	721	GTGAACTGGCTTGCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTTCAC
	722	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
	723	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
15	724	AGTAGTGGTCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCACTACT
	725	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
	726	GCATAAGTGCGGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
	727	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTCG
	728	TCGCAGTGATTCCCGACCGATAAG	CTTATCGGTCGGGAATCACTGCGA
20	729	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCTCGAGTGGACTCGCCTTG
	730	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
	731	TCCGAGCTTGACGTTCGCGACGTC	GACGTCGCGAACGTCAAGCTCGGA
!	732	AGCGCTGGGCTGTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
	733	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
25	734	CGAACCGCTAATGCCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG
	735	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTTGTCCCACCTTCCGTG
	736	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
	738	ACGTTACGTTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
30	739	TATCGGATTGCGTGGGTTTCAATC	GATTGAAACCCACGCAATCCGATA
	740	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
	741	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTTGTGCA
	742	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
	743	CTGAAACCGTGCGAATCGAGGTGA	TCACCTCGATTCGCACGGTTTCAG
35	744	CGGTGTTCCGCGTGTCGAAAAAAT	ATTTTTCGACACGCGGAACACCG
	745	TCTAGCAGGCCTTTTGAATCGCCA	TGGCGATTCAAAAGGCCTGCTAGA
	746	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
	747	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
	748	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCCTTTCAGGTTTCATCCGC
40	749	GGGGCCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTTGGGGCCCC
	750	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC

751	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT			
752	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT			
753	ACGATGAACATGAATCGGGAGTCG	CGACTCCCGATTCATGTTCATCGT			
754	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG			
755	GTGCCGTATTTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC			
756	GCAGTGCGCACTTCAGTTCAAAAG	CTTTTGAACTGAAGTGCGCACTGC			
757	GCGATTTTAAGCGATGCCTTGACG	CGTCAAGGCATCGCTTAAAATCGC			
758	TAGGTGACCTAGGCTTGCTTGCGG	CCGCAAGCAAGCCTAGGTCACCTA			
759	CTGGATACCTTGCCTGTGCGGCGC	GCGCCGCACAGGCAAGGTATCCAG			
760	CCCCTTACGGCTCGTCGTCTATGC	GCATAGACGACGAGCCGTAAGGGG			
761	GCGCTTGCCCGATGCGATGCATTA	TAATGCATCGCATCGGGCAAGCGC			
762	TTTCTGTAAGCGGCCTGGGGTTCA	TGAACCCCAGGCCGCTTACAGAAA			
763	GGCTGAGGTGAGCGGTAAGGATGA	TCATCCTTACCGCTCACCTCAGCC			
764	TCTTGGCCTCCCCGATCTAATTTG	CAAATTAGATCGGGGAGGCCAAGA			
765	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC			
766	GTAATCCATTTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC			
767	CAAACCCATTCCAGCAGACGCCTG	CAGGCGTCTGCTGGAATGGGTTTG			
768	TAGGAGGAATTTGGCATGCGGGCG	CGCCCGCATGCCAAATTCCTCCTA			
769	ATAGGTAGGATGTGCCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT			
770	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC			
771	CTGGCTGTGTCGCATCTCGTTAAC	GTTAACGAGATGCGACACAGCCAG			
772	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG			
773	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTTATGAAAA			
774	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCGTCCTCCTGCT			
775	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA			
776	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT			
777	TACATTCCCTGCCTCCGTGGGCTT	AAGCCCACGGAGGCAGGGAATGTA			
778	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACGCGAAGCG			
779	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTCGACGCGTCCGA			
780	TCTGAGCAGGCCAGCTCCAGCT	AGCTGGAGCGCTGGCCTGAGA			
781	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTTCAGGGCTTGGCAATTCAA			
782	AGTTTTCGCCTTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAACT			
783	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC			
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCGGTACTTGCAGCGATG			

TABLE 4

	Seq. ID No.	Decod r Sequence (5'-3') + 5' T	Probe Sequence (5'-3') + 5' T
	17	TTTCGCCGTCGTGTAGGCTTTTCAA	TTTGAAAAGCCTACACGACGGCGAA
	18	TGTTCCCAGTGAAGCTGCGATCTGG	TCCAGATCGCAGCTTCACTGGGAAC
5	19	TTACTTGGCATGGAATCCCTTACGC	TGCGTAAGGGATTCCATGCCAAGTA
·	20	TACTAGCATATTTCAGGGCACCGGC	TGCCGGTGCCCTGAAATATGCTAGT
	21	TGAACGGTCAATGAACCCGCTGTGA	TTCACAGCGGGTTCATTGACCGTTC
	22	TGCGGCCTTGGTTCAATATGAATCG	TCGATTCATATTGAACCAAGGCCGC
	23	TGATCGTTAGAGGGACCTTGCCCGA	TTCGGGCAAGGTCCCTCTAACGATC
10	24	TTGGACCTAGTCCGGCAGTGACGAA	TTTCGTCACTGCCGGACTAGGTCCA
	25	TATAAACTACCCAGGACGGGCGGAA	TTTCCGCCCGTCCTGGGTAGTTTAT
	26	TCATCGGTTCGCGCCAATCCAGATA	TTATCTGGATTGGCGCGAACCGATG
	27	TGTCGGGCATAGAGCCGACCACCCT	TAGGGTGGTCGGCTCTATGCCCGAC
	28	TCTTGGGTCATGATTCACCGTGCTA	TTAGCACGGTGAATCATGACCCAAG
15	29	TTGCCTAACGTGCTAATCAGCAGCG	TCGCTGCTGATTAGCACGTTAGGCA
	30	TCGCATGTTGGAGCATATGCCCTGA	TTCAGGGCATATGCTCCAACATGCG
	31	TAGCCACTGCATCAGTGCTGTTCAA	TTTGAACAGCACTGATGCAGTGGCT
	32	TGGTTGTTTTGAGGCGTCCCACACT	TAGTGTGGGACGCCTCAAAACAACC
	33	TTCGACCAAGAGCAAGGGCGGACCA	TTGGTCCGCCCTTGCTCTTGGTCGA
20	34	TGACATCGCTATTGCGCATGGATCA	TTGATCCATGCGCAATAGCGATGTC
	35	TGAAATACGAAGTCTGCGGGAGTCG	TCGACTCCCGCAGACTTCGTATTTC
	36	TTGTCATGAATGATTGATCGCGCGA	TTCGCGCGATCAATCATTCATGACA
	37	TATATCGGGATTCGTTCCCGGTGAA	TTTCACCGGGAACGAATCCCGATAT
	38	TGCGAGCGTACCGAAGGGCCTAGAA	TTTCTAGGCCCTTCGGTACGCTCGC
25	39	TTTACCGGCAGCGGACTTCCGAATT	TAATTCGGAAGTCCGCTGCCGGTAA
	40	TGTAATCGAGAGCTGCGCGCCGTCT	TAGACGCCCCCAGCTCTCGATTAC
	41	TCCTGTTAGCGTAGGCGAGTCGATC	TGATCGACTCGCCTACGCTAACAGG
	42	TTAGCGGACCGGCAGAATGAGTTCC	TGGAACTCATTCTGCCGGTCCGCTA
	43	TGGTACATGCACTACGCGCACTCGG	TCCGAGTGCGCGTAGTGCATGTACC
30	44	TAATTCATCTCGGACTCCCGCGGTA	TTACCGCGGGAGTCCGAGATGAATT
	45	TGCCAAATCTGGATTGGCAGGAATG	TCATTCCTGCCAATCCAGATTTGGC
	46	TTGCATTTTCGGTTGAGGCACATCC	TGGATGTGCCTCAACCGAAAATGCA
	47	TCCGCTCAATTCACCATGCTTCGCT	TAGCGAAGCATGGTGAATTGAGCGG
	48	TCTCGGAAAGGTGCAACTTTGGTGT	TACACCAAAGTTGCACCTTTCCGAG
35	49	TAATTCGACCAGCAGAACGTCCCAT	TATGGGACGTTCTGCTGGTCGAATT
	50	TGCCAGAGTCTCAACCTCACGGGAT	TATCCCGTGAGGTTGAGACTCTGGC
	51	TCCAACAACTGGAACGGGAACCCGC	TGCGGGTTCCCGTTCCAGTTGTTGG
•	52	TGAGAACTGATCGCTGAGGGGCATG	TCATGCCCTCAGCGATCAGTTCTC
	53	TGGCACACTAGACTTGTGGCACCGA	TTCGGTGCCACAAGTCTAGTGTGCC

55 TGTCTGCGGTGTGACCGCTTCATT TAATGAAGCGGTCACACCGGCAGAC 56 TCATCGCAGAGCATAAACACCCTCA TTGAGGGTGTTTATGCTCTGCGATG 57 TGTTGGTATCTATGGCAGAGGCGGA TTCCGCCTTCTCCCATAGATACCAAC 58 TACGAGGTGCCGTGAGGTTCCATT TAATGGAACCTCAGCGGCACCTCGT 59 TGGAATGAGTGGACCCAGGCACATT TAATGGACCTCAGCGGCACCTCGT 59 TGGAATGAGTGGACCCAGGCACATT TAATGGACCTCAGGGCACCTCGT 60 TTGTCAATATGCGTCCGTGTCGTCT TAGACGACACGGACGCATATTGACA 61 TTGATGAGCCTCAGGGTACCAGGCACT TGCCTGTGACCCTGAGGCTCATCA 62 TCACCGCGGTGTCCTCCT TAGACGACACGGACACCATGGCCACACA 64 TTTAACCTGCGTCTCCCCTTTCCT TAGACAGCAGCACACCATTGCCACACA 65 TAGGCGCGTTCCTCCCCTTTCCT TAGAAAGACACCGCGGTG 66 TTAGGCCGCTTACAGAATGA TTCATTCTGTAGGAACACCACGGGTG 67 TGCATCAGCAAGTCACACAATGA TTCATCTCTAGAGCACACACACACACACACACACACACAC	Г	54	TTCACATCCAAATATGGTCCGCGAA	TTTCGCGGACCATATTTGGATGTGA
56 TCATCGCAGAGCATAAACACCCTCA TTGAGGGTGTTTATGCTCTGCGATG 57 TGTTGGTATCTATGGCAGAGGCGGA TTCCGCCTTGCCATAGATACCAAC 58 TACGAGGTGCCGCTGAGGTTCCATT TAATGGACCTCAGCGGCACCTCGT 59 TGGAATGAGTGCACCCAGGCACATT TAATGGACCTCAGCGGCACCTCGT 60 TTGTCAATATGCGTCCGTGTCGTCT TAGACGACACGGACGCATATTGACA 61 TTGATGAGCTCAGGGTACGAGCA TTGCCTGGACCCTGAGGGCTCATCA 62 TCACCGCGGTGTCCTCT TAGACGACCCGAGGCCATATTGACA 63 TTTGTTGCCAATGGTTCCGTCTCGT 64 TTTAACCTGCGTCTGCCCTTTCCT TAGACGACCCACCATGGCACACACA 65 TAGGCGCGTTCCTGCCCTTTCCT TAGGAAAGGCACCACTGGCAACACA 66 TTAGGGCGATGCCACCACTTCCCT TAGGAAAGGGCACCCATGGCAACACA 66 TTAGGGCGATGCCACGAAGCTCCAA TTTCAACCTTCGTCCCTTA 67 TTGCATAGAGCCAAAGTCGCCATT TCATCGCCCATCGCCCTA 68 TTTCAGAGGCAGAAGCTCCAA TTTCAACCTTCGTCCCTTCAA 69 TTCCGCATTGTGACAACAGCA TCCCGTGTGGCCACTTTGCCCTTCAA 69 TTCCGCATTGTGACAAAAACCAGCA TCCCGTGGCCACCTGCCCTCCAA 69 TTCCGCATTGTGAGAAAAACCAGCA TCCCGTGGCTACGAAAATTTCCACAATGCGCA 70 TGGCGGTTTCCGTCAAAAAACCAGCA TCCCGTGGCTACGAAAATTTCCACAATGCACAC 71 TGGTGAAAAATTTCGTAAGCCACAGGA TCCCGTGGCTACGAAAATTTCACC 72 TCCGACGGAGGAGGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG 74 TGGATGAAAATTTCGTAAGCCACAGGA TCCTGTTGCTTCATCCTCCGTCGG 75 TCCGACTGGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG 76 TATCGCAAATCACTGCCAAAA TTTTTGGCCAAACTGGCCAACTGG 76 TATCGCAAATCACTGCCAAAA 77 TCAGGGCATGCAAATAATCGACGTTC 76 TATCGCAAATCACTGGTCCCAA TTTTAGGGCCAAACCGGCCCTG 77 TCAGGGCATGCAAATAATCGAGGTTC TGAACCTGGAAATTTGCCCAAA 77 TCAGGGCATGCAAATAATCGAGGTTC TGAACCTGAAACGGTGACAATCCGG 78 TCATCGCAAATCAATCAATCGAGGTTC TGAACCTCGATTATTGACCACCGTG 79 TCAGCTGCAAATAATCGAGGTTC TGAACCTCGATTATTCAACGCATG 80 TTTTGTATCTTCGCCAAACCAC TGTGGTTCGAAAACCGCCGCGCAC 81 TGATGGCCCCTTTGAACCGTTTGTACCAAACCAC TGTGGTTGGCCAAACCGCGCACCTC 82 TATGAGAAATCGACGGCGACCTTTTGT 77 TCAGGGCATGCAATATAAGAGGCTCCAACTGGT 81 TGATGCCCCCGTTGATAGCTAACCTCTCGTTCCTTA 81 TGATGCCCCCGTTGATAAGTTTCCCT 82 TATGAGAATCGACGGCACCTCTGTTT 81 TCATCCTTACCAGACCTCCGGTCGCCAACTCCCGGCACCATTCCCGTC 85 TAGGCCGGCAACTGGCACCTTTTGT TACCGAACCTCCGGCGCATCCTAAT 84 TCATGGGTGCCTGAACCGACCTTTCCGTT 77 TGCACCGGGCAATTGCCACTTCCGAT TACCGAGCCCTCCCCGGTTGAAATTTCCCCTG 77 TGCACCGGGCAATGGCACCTACTTTTTTC 7	-			
57 TGTTGGTATCTATGGCAGAGGCGGA  58 TACGAGGTGCGCTGAGGTTCCATT  59 TGGAATCAGTGCACCCAGGCACCTTCT  59 TGGAATCAGTGACCCAGGCACATT  ATATGGACCTCAGCGACCCACTCT  60 TTGTCAATATGCGTCCGTGTCGTCT  ATAGACGACCAGGACCCATTATTACACA  61 TTGATGAGCCTCAGGGTACCAGGCA  62 TCACCGCGGTGTTCCTACAGATGA  63 TTTGTTGCCAATGGTTCCACCAGATGA  64 TTTACCTGCTGCCCTTTCCT  65 TAGGCGCGTTCCTCACGAATGA  66 TTTAGCCTCAGCGTTCCCCTTTCCT  67 TTGCATAGAGCACCAAGCCAAGCCAAGCCAAGCCAAGCC	-			
5	-			TTCCGCCTCTGCCATAGATACCAAC
10 10 11 10 10 11 10 10 11 10 10 11 10 10	5			TAATGGAACCTCAGCGGCACCTCGT
60 TIGICAATATGCGTCCGTGTCGTCT TAGACGACACGGACGCATATTGACA 61 TTGATGAGCCTCAGGGTACGAGGCA TTGCCTCGTACCCTGAGGCTCATCA 62 TCACCGCGGTGTTCCTACAGAATGA TTCATTCTGTAGGAACACCGGGGTG 63 TTTGTTGCCAATGGTGTCCGCTCGG TCCGAGCGGACACCATTGGCAACAC 64 TTTAACCTGCGTCTGCCCTTTCT TAGGAAACACCACTGGCAACAC 65 TAGGCGGTTCTGCCCTTTTCT TAGGAAAGGGCCAGACGCAGGTTAA 65 TAGGCGGTTCCTGCCCTTTAGTGACG TCGTCACTAAGGCAGACACGCCCCT 66 TTAGGCGACACAAGCTTCAA TTTGAAGCTTCGGCCATCGCCCTA 67 TTGCATAGAGCCAAAGCTTCAA TTTGAAGCTTCGGCCATCGCCCTA 68 TTTGAAGGCCAAAGCTGCGGATG TCATCGCCGACTTTGGCTCTATACA 69 TTCCGCATTGTGAGAAAAAACGAGC TGCTGGTTTTTTTTCAATGCAA 69 TTCCGCATTGTGAGAAAAAACGAGC TGCTGTTTTTTTTCAAATGCGGA 70 TGCGGGTTTCCGTAGCTATAGGTGC 71 TGGTGAAAATTTCGTAGCACGGA TTGCCCACTGCACTCCACACTCAA 72 TCCGACGGAGGATGAACAAACAACGG 73 TCCAGTTTGGCCCAAAACTCAC TGTGATTGTCTTCAACTCCGCGC 74 TGGATCATTAGGCCACACACAC TCTTGCACAACTGG 75 TCCGATTTGGCCCAAAACTTCCCCAAAA 74 TGGATCATTTAGGCCCCAAAA 75 TCGGATGTCACCATTTCATCAAACAGGTGACAACCGC 76 TATCGCAAATCCTGCTCCCTAA 77 TCAGGGCATGCACATTAGCTCCCAAAA 77 TCAGGGCATGCAATAATTGGACTTCC 76 TATCGCAAATCCTGCTCCCTAA 77 TCAGGGCATGCAATAATTGGGCCCAAG 77 TCAGGGCATGCAATAATTGGGCCCAAG 78 TCATGCCTTGATAAGTTC 77 TCAGGGCATGCAATAATTGGGCCCAAG 79 TCAGCTGCACTGTTGACCAACCAC 80 TTTGTATTGTCTCGCCGAACCAC 81 TGATGGCCCCGTTGTAAGGTTC 82 TATGAGAATCCCGGGCACC 82 TATGAGAATCGCGGGAACCTTCGCT 83 TATTTGCACTGACCGGAACCTTCTCAT 84 TCAGGGACAACGGGGACC TGGTTGGCCCAAACCGTGCCAAAC 85 TATGAGAACCGGTTAAGGTATGG 86 TACACCGGTGAGACATCCAC 87 TGACCTGCACGGAACCTTCCAT 87 TCAGCTGCACGGGACC TGGTCGCCGGAACCATCCAT 88 TATTTCCACCGACGGGACC TGGTCGCCGAACCATCCAC 89 TTGAACTGACGAGACGGTTCCATCA 71 TGACGTGCCCGGAACCATCTCCAT 71 TCAGGGAACAGCGTTCAATACCGTTCCCCTG 71 TCAGCTGCACACCAC TGGCGACC 71 TCAGCTGCACGCGACC 71 TCAGCTGCACGCACCC 71 TCAGCTGCCCGAGCCTCGTG 72 TCAGCTGAGACACCAC TGGCTACACCCC 73 TCAGCTGACACCCC 74 TTGAGCACCCCCCAGGCTCCGCGACCCCATTCCATCA 75 TCAGCTGCACACCCC 75 TCAGCTGACACCCCCATCCTCAAACCCCCCCCCCCCCCC	ř			TAATGTGCCTGGGTCCACTCATTCC
61 TIGATGAGCCTCAGGGTACCAGAGCA  62 TCACCGCGGTGTTCCTACAGAATGA  63 TTGTTTGCCAATGGTGTCGCTCGG  64 TTTAACCTGCGTTGCCCTTTCCT  65 TAGGCGGCGTCCCCCTTTCCT  66 TAGGCGGTTCCTGCCCTTTCCT  66 TAGGCGGTTCCTGCCTTTCCT  67 TTGCATAGAGCCAAGGCTTCAA  68 TTTGACTGCGCTTAGTGACG  69 TTGCATAGAGCCAAAGCTCAA  69 TTCCGCACTTGCCCCTTAA  69 TTCCGCACTTGCCCCTTAA  69 TTCCGCATTGCAATGCCACGAA  69 TTCCGCATTGAGAAAAAACCGAC  70 TGGCGATTGCAGAAAAAAACCGAC  71 TGGTGAAAATTCGTAGCACACCCCC  72 TCCGACGGAGCACCCCCCCCCCAA  73 TCCAGTTGAGAAAAAACCGAC  74 TGGTGAAAATTCGTAGCCACACCACACCCCCCCCCCCCC				TAGACGACACGGACGCATATTGACA
62 TCACGGGGTGTTCCTACAGAATGA TTCATTCTGTAGGAACACCGCGGTG 63 TTTGTTGCCAATGGTGTCGCTCGG TCCGAGCGGACACCATTGGCAACAA 64 TTTAACCTGCGTCTGCCCTTTCCT TAGGAAAGGGGCAGCACCATTGGCAACAA 65 TAGGCGCGTTCCTCCTTAGTGACG TCGTCAAAGGCAGGAACGCAGGTAA 66 TTAGGCGATGGCACGAAGCTTCAA TTGAAGCTTGCGCATCGCCCTA 66 TTAGGGCATGGCACGAAGCTTCAA TTGAAGCTTGGCCATCGCCCTA 67 TTGCATAGAGCCAAAGTCGGCGATG TCATCGCCGACTTTGGCCATCGCCCTA 68 TTTCAGAGCCAAAGTCGGCGATG TCATCGCCGACTTTGGCCATCGCCCTA 69 TCCCGCATTGTGAGAAAAAACGAGC TGCTCGTTTTTCCACAATGCGGA 70 TGGCGGTTTCCGTAGCTAAGCTGCACCGC 71 TGGTGAAAATTCGTAGCCACAGGA TCCCCCTTAGCACATTTCCACAATGCGGA 70 TGCGGGAGGATGAGAACAATCAC TGTGATTTTCACCACATGCGCACT 71 TGGTGAAAATTCTGTAGCCACAGGA TTTTTTTTCACCACATGCGCACT 72 TCCGACGGAGGATGAGAACAATCAC TGTGATTGTCTCCACCACAACTTTCCACAATTCCCCACAAA TTTTTTGCCCAAAACTCTGCTCACCACAACTTCGCCACAAA TTTTTTGCCCAAAAA TTTTTTTTCACCACAACGGTACACCACGCCTAAACACGTTTCGACAAAACAACAACAACGACATCAC 75 TCAGGATGTCACCATTTCGACCACAAA TTTTTTTGGCCAAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGAAGTCCAAACGGTGACATCCG 77 TCAGGGCATTCATATTGGACCCTAA TTTAGAACTCCAAACGGTGACATCCG 78 TCAGCTGCAATAATCAGAGTTC TGAACCTCGATTATTTCAACGCATG 79 TCAGCTGCACATTATTGACCAAACCAC TGTGGTTGGCCAAAACGGTGACATCAA 80 TTTTGTATGTCTCCCGACCGGCGACC TGGTCGCCGGTCGGCAACATAACAA 81 TGATGGCCCCATTTTGACCAAACCAC TGTGGTTGGCCCATATATACAACGCATG 82 TATGAGAATCCCCGAGGCCATCTTTTCAT TCACAGGCCCCACTATATATCAACGGCCCACT 82 TATGAGAATCCCCGAGGCCATCTTTTTCATCTCCCTGGCCGCACATCACAA 83 TATTTCCACTGACCACACCAC TGGTCGCCGGCACATCACAA 84 TCAGGGAGAACGGTTAAGTTCCCCT TACGGGACCTTCCACTG 85 TAGGCCCGCGATCGAAGGATTTGGT TCACAAACCTCCTCGATCGCCGGCCATC 86 TACACGGGGAACATGCAACCAC TGGTCGCCTGGCTCACTTCACT	ŀ			TTGCCTCGTACCCTGAGGCTCATCA
10 63 TITGTTGCCAATGGTGTCCGCTCGG TCCGAGCGGACACCATTGGCAACAA 64 TITAACCTGCGTCTGCCCTTTCCT TAGGAAAGGGGCAGACGCAGGTTAA 65 TAGGCGCGTTCCTGCCTTAGTGACG TCGTCACTAAGGCAGGAACGCGCCT 66 TTAGGGCAGTGGCACGAAGCTCAA TTTGAAGCTTCGTCCACTATGCA 66 TTAGGAGCCAAAGTCGGCGATT 67 TTGCATAGAGCCAAAGTCGGCGATT 68 TTTCAGAGGCAGAGCACGGAT 69 TTCCGCATTGTGAGAAAAAACGAC 69 TTCCGCATTGTGAGAAAAAACGAC 70 TGGCGGTTTCCGTAGGCACAGGA 71 TGGTGAAAATTTCGTAGCCACCGGA 72 TCCGACGGAGGAAAAAACCACGC 73 TCCAGTTTGGCCCAAAATTTCCTCCGTCGG 74 TGGATCAATTAGGTGC 75 TCGGACGGAGGATGAACAAATCAC 76 TATCGCAAATTTCGCCAAAA 77 TGGATGTACACCCATTTCGCCAAA 78 TCCGATGTCACCCAAAA 79 TGCAATTCACCCAAAA 70 TGGATGTCACCGTTTGGACTTCA 71 TGGATGTACACCGTTTCCAAATTCTCCCCCAAA 71 TGGATGTACACCGTTTGGACTTCCA 72 TCCGACGGAGGATGAACACAC 73 TCCAGTTTGGCCCAAAA 74 TGGATCTATTAGGCCCTGCCCAAA 75 TCGGATGTCACCCGTTTGGACTTTCA 76 TATCGCAAATCCTGCTCCCTAA 77 TCAGGGCATGCAAATAATCGAGGTTC 77 TCAGGGCATGCAAATAATCGAGGTTC 78 TCATGCGTTGACAAACACGAT 79 TCAGCTGCAAATAATCGAGGTTC 80 TTTGTATTGTCTCCCGACCGCCCAAG 80 TTTGTATTTCTCCCGACCGCCCAAG 81 TGATGGCCCCGTTGACAACCAC 81 TGATGGCCCCGTTGATAAGTTCGA 82 TATGAGAATCGCCGCAACC 82 TATGAGAATCGCCGCAACC 82 TATGAGAATCGCCGCAACCC 82 TATGAGAATCGCCGCAACCC 66 TACCCGAGCCTTCAAACCCTCCAAA 67 TCAGCGGCACACCACCCGCACC 67 TATGCAGAACCTCCATCAATAATCAACCGACCATCAAA 67 TCAGCGGCACCCGCACCC TCGCCCGCCCCGCCACTC 67 TCAGCTGCAGCCTTGATAAGTTCCCTT 67 TCAGCGCCCGTTGATAGGTATGG TCCATACCTATCAACCGGCCCATC 67 TATGCAGAACCCGAACCCCGCACC TGTCCCCGGTCAGCCAATCTCAA 67 TCAGCGCCCGGTTAAGTTCCCGT TACCGAACCTTCCATCAACCGGCCCATC 67 TTTCGCACCCGCAGGCTTCATCAACCTTCCATCAACCGGCCCATCTCCATCAACCTTCCATCAACCGGCCCATCTCCATCAACCTTCCATCAACCTTCCATCAACCTTCCCTG 67 TGTGCAACCCCGAGGCTTCCATCAACCTTCCATCAACCGGCCCATTCTCCCTG 67 TGTGCAACCCCGAGGCTTCCATCAACCTTCCATCAACCTTCTCCCTG 67 TGTGCAACCCCGAGGCTTCCATCAACCTTCCATCAACCTTCTCCCTG 67 TGTGCAACCCCGAGGCCTTCCATCAACCCGAACTCCAACCCGAACCCGAACCCGAACCCGAACCCCGAACCCCGAACCCCGAACCCCGAACCCCGAACCCCGACCCCTTCCATCAACCCCGACCCCGACCCCTTTCCATCAACCCGACCCGACCCCGACCCCTTTCCATCAACCCCCACTCTCCCCCCCC				TTCATTCTGTAGGAACACCGCGGTG
64 TITTAACCTGCGTCTGCCCTTTCCT TAGGAAAGGGGCAGACGCAGGTTAA 65 TAGGCGCGTTCCTGCCTTAGTGACG TCGTCACTAAGGCAGGAACGCGCCT 66 TTAGGGCGATGGCACGAAGCTTCAA TITTGAAGCTTCGTCCATCAGCCTA 67 TTGCATAGAGCCAAAGTCGGCATG TCATCGCCGACTTTGGCCTATAGCA 68 TITTGAAGGCAGGTGGCCACACGGA TCCGTGTGGCCACTGCCTCCAA 69 TTCCGCATTGTGAGAAAAAACGAC TCCTGGTGTGCCACTCCAA 69 TTCCGCATTGTGAGAAAAAACGAC TCCTGGTTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATAGCTACGGAAACCGCC 71 TGGTGAAAATTTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGTGATCTCATCCTCCGTCGG 74 TGGATCTATTAGGCCGTGCCCAAAA TTTTTGCCGAATTGGGCCAAACTGG 75 TCGGATGTCACCCATTTCGCCAAAA TTTTTGCCGAATTGGGCCAAACTGG 76 TATCGCAAATCCTGTCGTCCCTAA 77 TCAGGGCCTTGACAATAATCGAGGTTC 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATCCCT 78 TCATCGCAATCATCACCCAAA 79 TCAGCTGCAAATAATCGAGGTTC TGAACCTCGATTATTGCATCCCTG 80 TTTGTATGTCTCCCGACAGCACCAC TGTGGTCCCATAATAACACGCATG 80 TTTGTATGTCTCCCGACAGCACCAC TGTGGTCCCAACACGGGCACTGCAATAATCACGCATG 81 TGATGGCGCCGTTGATAGGACTAC 81 TGATGGCGCCGCGCACC TGGTCGCCGAACTGCAACTGG 82 TATGAGAATCGCCGCAACGCAC TGTGGTCCCGGCACTCCACCACCACCACCACCACCACCACCACCACCACCA	10			TCCGAGCGGACACCATTGGCAACAA
65 TAGGCGCTTCTGCCTTAGTGACG TCGTCACTAAGGCAGGAACGCCCT 66 TTAGGGCGATGGCACGAAGCTTCAA TTTGAAGCTTCGTGCCATCGCCCTA 67 TTGCATAGAGCCAAAGTCGGCGATG TCATCGCCGACTTTGGCTCTATGCA 68 TTTGAGAGGCAGGTGGCCACACGGA TCCGTCGCCTCCAA 69 TTCCGCATTGTGAGAAAAACGAGC TGCTCGTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATCACGGAAACCGCC 71 TGGTGAAAATTTCGTAGCCACGGGC TGCCCCTGGCTACAACCGCC 72 TCCGACGGAGGATGAACAACCACGC TGCCCGTGGCTACCAAATTTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG 74 TGGATCTATTAGGCCCACAGA TTTTTGGCGCAACATGGCCAACTGG 75 TCGGATGTCACCGATTTCAC TGTGATTGTCTTCATCCTCCGTCGG 76 TATCGCAATCCTGCTCGTCCCTAA TTTTAGGACCACGGCCTAATAGATCC 77 TCAGGGCATGCACAAATCACTGGTCCCTAA TTTAGGGACGACGCACAGCACTTGGCACATCGC 78 TCATGCGTTGAACAAACACACAC TCTTGGGCCAAAACACACCGTG 79 TCAGGCAGCATGTGACCAACCAC TGTGGTTGGTCACAAACGCATGG 80 TTTGTATCTTCCGCGACCGCGCACC TGGTCGCCCAATATATCAACGCATG 81 TGATGGCGCCCGTTGATAGGTATGG 82 TATGAGAATCCCGCACGCACCC TGGTGGTCGCCAAACATCAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGCGCCCATC 82 TATGAGAATCGCCGGCACC TGGTCGCCGGTCGGCCAACATCAA 84 TCAGGGGAACCGCGACC TGGTCGCCGGCCCATC 85 TAGCCCGCGGCACTCTGCTA TTAGCACACCCCGCGCCCATC 86 TACCAGGTGGTCACCACCAC TGGTGTCCCCGGCCCATCCAT 87 TGCAACCTGACCACGCAGCTCCTGT TACCGACCCTGCGGTCAGTGCAAAT  84 TCAGGGAGAACGGTTAAGTTCCCGT TACCGAGCCTGCGGTCAGTGCAAAT  85 TAGCCCGCGCAATCTGCTA TTAGCACCCTGCGGCCAATCTCCAT  86 TACACGGTGGTCTCTAAGCTACCAC TGGTCGCCGGCTATACCGCGCCCTG  87 TGCCACCCCAGGACTTCAACCAC TGGTCGCCTGCGGTCAGGCACACTCCCGCGCGTTGATAGCCACCCTGTTTCATCA  87 TGTGCAACCCCAGGACTTCCATCA TTGACGAACCTCCGGCGTTGCACCCGAGCTTCCATCA  89 TGCAACCGCCAGGACTTCCATCA TTGACGAACCTCCTGGCGTTGCAAC  90 TGCATCGTGTACACCACCCCATTCCATCA TTGACGAACCTCCTGGCGTTGCAAC  90 TGCATCGTTGAACCCCACCCCATTCCATCA TTGACGAACCTCTGGCGCCCCGA  91 TCAGTGTTCTAACCGCCGCGCGTGAA TTTCACGCGCCCCTTTAACCACCCGCGCCGTTGAAACCACCTGTTTCAACCGCCGCCCTTTAACCACCCTGCTTTCAACCACCCGCGCCGCTTTAACCACCACCTGTTTCAACCACCACCCGAATTTCCATCA TTGAGGAACCACCTGCTTTCAACCACCCACCTACTTTCAACCGCCGCCCGTTTAACCACCACCCAATTTCCACCACCCAC				TAGGAAAGGGCAGACGCAGGTTAA
66 TTAGGGCGATGGCACGAAGCTTCAA TTTGAAGCTTCGTGCCATCGCCCTA 67 TTGCATAGAGCCAAAGTCGGCGATG TCATCGCCGACTTTGGCTCTATGCA 68 TTTCAGAGGCAGGTGGCCACACGGA TTCCGTGTGGCCACTGCCTCTCAA 69 TTCCGCATTGTGAGAAAAAACGAC TGCTCGTTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATAGCTACGGAAACCGCC 71 TGGTGAAAATTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGCTGGTTGTCTCATCCTCCGTCGG 73 TCCAGTTTGGCCCAATAAGTTGC TGCACTATAGGTACCTCCGTCGG 74 TGGATCTATTAGGCCGTGCCAAAA TTTTTGGCCAAATTGGCCAAACTGG 75 TCGGATGTCACCGATTTCGCCAAAA TTTTTGGCGCAAACTGG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGGACGAGCAGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGACCTCCAAACGGTGACATCCG 77 TCAGGGCATTGCACTAATATCGAGGTTC TGAACCTCCGATTATTACAACCCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TCTTGGCCCAATAATACACACTG 80 TTTTGTATTCTTCCCGACCAGCGCACC TGGTGGTCGCCAAACTCCACACAC 81 TGATGGCCCCGTTGATAGGACCAC TGGTGGTCGCCGGGCAAACTACAA 81 TGATGGCCCCGTTGATAGGACCAC TGGTGGTCACAAACGGTGCACACTACACACAC 82 TATGAGAATCGCCGGCAACTTCCAT TTAGCAGATTCCCGT 82 TATGAGAATCGCCGGCAACTTCCAT TTAGCAGACTCCGGCCCATC 83 TATTTTGCACTGACCGAGCGTCGTG TCACGAGCCTGCGGCCAACTACAAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTACACGCTGGTCACACACACACTACACACAC		65		TCGTCACTAAGGCAGGAACGCGCCT
15 68 TITGAGAGGCAGGTGGCCACAGGA TICCGTGTGGCCACCTGCCTCTCAA 69 TICCGCATTGTGAGAAAAAACGAGC TGCTCGTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATAGCTACGGAAACCGCC 71 TGGTGAAAATTTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG 73 TCCAGTTTGGCCCAAAA TTTTTGGCGAATTGGGCCAAACTGG 74 TGGATCTATTAGGCCGTGCGCAAAA TTTTTGGCGAATTGGGCCAAACTGG 75 TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGGACGAGCAGGATTTGCGAT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTCAACGCATG 79 TCAGCTGCAGCTTTGTACCAACCAC TCTTGGGCCCATATATACAACGCATG 80 TTTGTATATATGGGCCCAAG TCTTGGGCCCAAACCGCCTG 80 TTTGTATGTCTCGCCCAACCAC TGTGGTTGCACAACCGCAGCAGCAACAACACAC 81 TGATGCCCCCCTTTGAACACACAC TGTGGTTGCACAACGTGCAGCTG 82 TATGAGAATCCCGCGCGACC TGGTCGCCGGTCGCAGACATACAA 83 TATTTGCACCGCGCGCAATCTCCTA TTAGCAGATTGCCGGCGGCACTC 84 TCAGGGAGAACGCGCAGCTTCCATA TACACAGGGCGCCATC 85 TAGGCCGCGCGTAAGGTATGGT TCACAAACTCCCGGGGAACTTCCAT 86 TACACGGTGGTCAAGGTTTGGT TCACGAGCCTGCGGTCAGTGCAAAT 87 TGTGCAACGCCGAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT 86 TACACGGTGGTCAAGGAATTCCCGT TACCGAGCCTGCGGTCAGTGCAAAT 87 TGTGCAACGCCGAGGACTTTCCGT TACCGAGCCTCCGGCGTCCCCGGCCTTGCAC 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAACCGTTCTCCCTG 87 TGTGCAACGCCGAGGACTTCCGAT TACCGAACTCCCCGGCGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCCGTGT 87 TGTGCAACGCCAAGGCAATTCCGAT TACCGAACTCCCGGCGTTGCAC 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 89 TTGAAATACCACACACCCATTCCGAT TACCGAACTCCCGGCGTTTCCA 90 TGCATCGTGTACATGACCACTCCCGCG 91 TCAGTGTTCAACGGCCCCATTCCGAT TTCACGCGCCGCCGTTTAGAACACTGC 92 TCGCTTGCAACGTTGCACCTACTCT TACACACCCCCATGGTTTTCA 40 93 TCGAAAAACTACTGGCCCCCCCCCCCCCCCCCCCCCCCC	Ì			TTTGAAGCTTCGTGCCATCGCCCTA
69 TTCCGCATTGTGAGAAAAAACGAGC TGCTCGTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATAGCTACGGAAACCGCC 71 TGGTGAAAATTTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTCATCCTCCGTCGG 73 TCCAGTTTGGCCCAAAA TTTTTGGCGAAATTGGCCAAACTGG 74 TGGATCTATTAGGCCGTGCGCACAG TCTGTGCGCACGGCTAATAGATCC 75 TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGACGAGCAGGATTTGCGAT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCTG 80 TTTGTATATATGGGCCCAAG TCTTGGGCCCATAATACAACGCATG 80 TTTGTATGTCTCCGACCGGCGACC TGTGGTGGCACAACCTGCAGCTG 81 TGATGGCGCCCGTTGATAGGTATGG TCCATAACCAAGCTGCAGCTG 82 TATGAGAATCGCGGCGAACC TGTGGTTGGTCACAAGCTGCAGCTG 83 TATTTGCACTGACCACCGCGGCAAC TCTAGCAGACTTCCAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGAACTTAACCAAT 85 TAGGCCGCCGATCGAGGATTTGGT 86 TACACGTTGATCAGGACC TGGTCGCCGGTCAGTGCAAAT 87 TGTGCACCGCAGGACTTCGTT TACGGAACCTCCGTGCACAAC 88 TCAGGGGGAACGGTTAAGTTCCCGT TACGGAACTTAACCACCGGCCGCT 86 TACACGTGGTCTCTGATAGCCACC TGGTCGCCGTCAGTCCAAC 87 TGTGCAACGCCGAGGACTTCCATC TTACGGAACTCCCCGGCGTTCCCTG 87 TGTGCAACGCCGAGGACTTCCATC TTACGGAACTTCCCCGG 88 TTCGGTGCCTGATAGCCATCCGT TACGGAACTCCTCGGCGTTGCAC  89 TTGAAATACCACACGCCAATTCGCT TACCGAACTCCTCGGCGTTGCAC  90 TGCATCGTGTACATGCCCGCAG 71 TCAGGGCAGCCCTTTCCATCA TTACCGCACCCGCGTTTCCACCGACCCGA 71 TCAGTGTTCTAACCGCCCGCAG 71 TACGGCAGCCGTTGAACCCCTACCACCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGTTTCCACCACCCCGCGATCCACCCCGATTCCACCACCCCGCGATCCACCCCGAACCCCCATTTTCCACCGCCGCGCGCG			TTGCATAGAGCCAAAGTCGGCGATG	TCATCGCCGACTTTGGCTCTATGCA
69 TTCCGCATTGTGAGAAAAAACGAGC TGCTCGTTTTTTCTCACAATGCGGA 70 TGGCGGTTTCCGTAGCTATAGGTGC TGCACCTATAGCTACGGAAACCGCC 71 TGGTGAAAATTTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTTCACC 72 TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG 73 TCCAGTTTGGCCCAAAA TTTTTGGCGAAATTGGCCCAAACTGG 74 TGGATCTATTAGGCCCGTGCCACAG TCTGTGCGCACGGCCTAATAGATCC 75 TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGACGACGAGATTTGCATT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG 78 TCATGCGTTGATAATATGAGCCCAAG TCTTGGGCCCATAATACACGCCTG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGTGGCCCATAATACAACGCTG 80 TTTGTATGTCTCGCCGACCGGCGACC TGGTTGGTCACAAGCTGCAGCTG 81 TGATGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCACATCAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGAACATACAA 83 TATTTGCACTGACCGACGGCTCGTG TCACGAGCCTGCGGTAAGTTCCAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGACCTTCCCTG 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCACC TGGTCGCTGGTCAGCCACACAC 87 TGTGCAACGCCGAGGACTTCCATCA TTACGGAACTCCCCGGCCCT 86 TACACGGTGGTCTCTGATAGCACC TGGTCGCCTGTGCACCCGGCCT 87 TGTGCAACGCCGAGGACTTCCATCA TTACGGAACTCCTCGGCGTTGCAC 87 TGTGCAACGCCGAGGACTTCCATCA TTACGGAACTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TACCGAACTCCTCGGCGTTGCAC 89 TTGAAATACCACACACCCCATTGGC TCCCAATTGGCTTGTTTCA 90 TGCATCGTGTACATGCCGCGAA TTTCACGCGCCGCGTTTTCA 91 TCAGTGTTCTAACGGCGCGCGTTAA	15	68	TTTGAGAGGCAGGTGGCCACACGGA	TTCCGTGTGGCCACCTGCCTCTCAA
TI TGGTGAAAATTTCGTAGCCACGGGC TGCCCGTGGCTACGAAATTTTCACC TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTTCATCCTCCGTCGG TGCACTTTGGCCCAAAAA TTTTTGGCGAAATTGGGCCAAACTGG TGGATCTATTAGGCCGTGCGCACAG TCTGTGCGACAGGCCTAATAGATCC TGGATCTATTAGGCCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG TATCGCAAATCCTGCTCCCTAA TTTAGGGACGAGGAGAGATTGCGAT TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGCTGCAGCTTGTGACCAACCAC TCTTGGGCCCATATATCAACGCATG TGATCGCGACCGGCGACC TGGTCGCCGGCAGACATACAA TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC TTAGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT TAGAGGAAACGGTTAAGTTCCCGT TACGAGCCTGCGGCAACTTCCAT TAGAGGAGAACGGTTAAGTTCCCGT TACGAGCCTGCGGCAACTTCCCTG TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAACGGTTCCCTG TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCACAGACCACCGTGT TTAGACAACCCCGCGAGACTTTCCATCA TTAGCAAACTCCTCGATCGCCGGCCT TGTGCAACGCCGAGGACTTCCATCA TTACCGAACTCCTCGATCGCCGGCCT TGTGCAACGCCGAGGACTTCCATCA TTACGGAATTCAGCACCCGGCCT TGTGCAACGCCGAGGACTTCCATCA TTACGGAATGCCTTCCCCTG TTGTGCAACGCCGAGGACTTCCATCA TTACGGAATGCCTTCCCCGGCTTGCAC TTGTGCAACGCCGAGGACTTCCATCA TTACGGAATGCCTTCCGCGTTGCAC TTGTGCAACGCCGAGGACTTCCATCA TTACCGAACTCCTCGGCGTTGCAC TTGAAATACCAACACACACACCAATTCCGAT TATCGGAATGGCTATCAGGCACCGA TTGAAATACCACACACGCCAATTCCGAT TATCGGAATGGCTATCAGGCACCGA TTGAAATACCACACACGCCAATTCGCC TGCCCAATTGGCTGTTGGTATTTTCA TTCGCGGCCACTCATGACACCACCCGCGA TTCCGCGCGCCGCTTAGAACACCTG TTCAGTGTTCTAACGGCCCGCGA TTCCGCGCGCAGTCATGTACACCGATGC TTCAGTGTTCTAACGGCCCGCGCGTGAA TTTCACCGCCGCCGTTAGAACACTGC TTCACGGCGCACCCACTAGTTTTTCA TCCCGCGCGACCCACTAGTTTCCACCAACCCCCACTAGTTTTTCA TTCAGAGAAAACTAGTGGCGCCCACTACTCT TAGAGATAGGCACCACCACTAGCCAATTCCACCACCCGCGCGCG	ľ	69	TTCCGCATTGTGAGAAAAAACGAGC	TGCTCGTTTTTTCTCACAATGCGGA
TCCGACGGAGGATGAAGACAATCAC TGTGATTGTCTCATCCTCCGTCGG TCCAGTTTGGCCCAATTCGCCAAAA TTTTTGGCGAATTGGGCCAAACTGG TCAGTTTGGCCCAATTCGCCAAAA TTTTTGGCGAATTGGGCCAAACTGG TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG TCGGATGCACACGGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG TCAGCGCAATCCTGCTCCCTAA TTTAGGACGACGAGCAGGATTTGCGAT TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGCGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTCGCCAAGCTGCAGCTG TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG TCAGCTGCAGCCGCGACC TGGTCGCCGGTCGGCAGACATACAA TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC TTAGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT TCAGGGAACACGCTGAGCCAACCAC TGTGCACAACCTTCCCTG TCACGAGCCTTGCGTCAACCGCCAGGCTCCGTGT TCACGAGCCTTCCGTCAGTGCAAAT TCAGGGAGAACGGTTAAGTTCCCGT TACCGGAACTTAACCGTTCCCCTG TACACAGCTCGACGAGCATTCCCATCA TTGATGGAAGTCCTCGCCGGCCT TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC TGTCGCTATCAGAGACCCCACTGGT TTGAAATACCACCACACACCACTTCCGAT TACCGGAATTGCCCGCGTTGCAC TTGATGGAATGGCTATCAGGCACCGA TTGAAATACCACACACACCAATTGGC TGCCCAATTGGCTGTTGGTATTTCA TTGAAATACCACACACACCAATTGGC TGCCAATTGGCTGTTGGTATTTTCA TCAGTGTTCTAACCGCCCGCGAGAATTGGCCTTTCGCACCGATGCATGGCACCGA TTCACTGTTAACCGCCCCGCGAGAATTTCCAACCGTTGTAGAACACCTG TTCACTGTTCAACCGCCCGCGAGAATTTCCACAACTCCTCGGCGTTAGAACACCGGAGCAATTCCACAACTCCTCGGCGTTTGGAACACTGCAACCGATGCAATTGGCTTTTCAACGGCCCCACTAGTACACACAC		70	TGGCGGTTTCCGTAGCTATAGGTGC	TGCACCTATAGCTACGGAAACCGCC
73 TCCAGTTTGGCCCAATTCGCCAAAA TTTTTGGCGAATTGGGCCAAACTGG 74 TGGATCTATTAGGCCGTGCGCACAG TCTGTGCGCACGGCCTAATAGATCC 75 TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTTAGGGACGAGGAGTTTGCGAT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG 78 TCATGCGTTGATAATATGGGCCCAAG TCTTGGGCCCATATATCAACGCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGGCAGACATACAA 81 TGATGGCGCCGGTTGATAGGTATGG TCCATACCTATCAACGGCGCCATC 82 TATGAGAATCGCCGGCGACC TGGTCGCCGGTCGGCAGACATCATA 83 TATTTGCACTGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT 84 TCAGGGAACACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCTG 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTGTCCCCTGG 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGCCGGCCT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATCCATC TTGATGGAATGCCTTCCACGA 89 TTGAAATACCACACAGCCAATTCGCT TACCGAATTGGCTGTTGCACCGA 89 TTGAAATACCACACAGCCAATTCCGAT TACCGGAACTACAGGCACCCGA 89 TTGAAATACCACACAGCCCAATTCCGAT TACCGGAACTACAGGCACCCGA 90 TGCATCGTGTACATGACCGCGCGAATTCCACCATTCCACCGCGCCCTTTACACCGATCC 91 TCAGTGTTCTAACGGCGCCGCGAATTCCACCATTCCACCGCGCCCGTTTACACCGATCCCGCCGCCCGTTACACCGTTCCAACCGTTCCAACCGTTCCAACCGTTCCAACCGTTCCAACCGTTCCAACCGTTCCAACCCTTCCACCGCGCCCGTTACAACCACTGCTTCCAACCGTTCAACCGTTCCAACCGTTCCAACCGTTCCAACCGTTCCAACCGT	Ì	71	TGGTGAAAATTTCGTAGCCACGGGC	TGCCCGTGGCTACGAAATTTTCACC
74 TGGATCTATTAGGCCGTGCGCACAG TCTGTGCGCACGGCCTAATAGATCC 75 TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG 76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGGACGAGCAGGATTTGCGAT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG 78 TCATGCGTTGATATATTGGGCCCAAG TCTTGGGCCCATGATATCAACGCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG 82 TATGAGAATCGCCGGCAACCTTTAGCAGACTTCCAT 84 TCAGGGAGAACCGCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 85 TAGGCCGGCGATCGAGCTCGTT TCACGAGCCTGCGGTCAGTGCAAAT 86 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG 87 TGTGCAACGCCGAGGACTTCCATCA TGGTCGCCTGCGCCTTCCCTG 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCACC TGGTCGCTATCAGAGACCACCCGTGT 70 TCACTGTTAACCGACCTATCCGAT TACCGAATTGCCTGCCGCGCTTTCACACCGCCGACCTATCACACCCCGACCCGACCTATCCACCACACACCCCGACCCAACTTCCGAT TACCGAATTGCCTTCCCTGATCGCCGCACCCGACCTACTCCATCA TTGATGGAATGCCTATCAGGCACCCGACCCG		72	TCCGACGGAGGATGAAGACAATCAC	TGTGATTGTCTTCATCCTCCGTCGG
TCGGATGTCACCGTTTGGACTTTCA TTGAAAGTCCAAACGGTGACATCCG TATCGCAAATCCTGCTCCTAA TTTAGGGACGACGAGGATTTGCGAT TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG TCAGGCTGCAGCTTGTGACCAACCAC TCTTGGGCCCATATATCAACGCATG TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG TCATGCTGCAGCTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC TTAGCAGATTGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT TTAGCAGATTGCCGGCGATTCTCAT TAGCAGACTTGCCGGTCAGTGCAAAT TCAGGGAGAACGGTTAAGTTCCCGT TACGAGCCTGCGGTCAGTGCAAAT TCAGGGAGAACGGTTAAGTTCCCGT TACCAAACTCCTCGATCGCCGGCCT TTACCAAACTCCTCGATCGCCGGCCT TTACGGGAACTTAACCGTTCTCCCTG TTACCAAACTCCTCGATCGCCGGCCT TTACGGAACTCCTCGATCGCCGGCCTTTCCATCACACCGCTGTTCTCCCTG TTACGGAAAGTCCCCGCGATTCCATCA TTATCGGAAGTCCTCCGCGCTTTCCATCACACCCGCGCCTTTCACCCGCGCCTTTCACCCGCGCCTTTCACCACCCGATTCCACCACACCCCGATTTCCATCACCGCCGCCGCTTTCCACCACCCGCGCCTTTCCATCACCACACCCCGATTCCACCACACCCCGATTCCACCACACCCGCGCCTTTCCATCACCGCCGCCCTTTCCACCACCCGCCGCCTTTCCACCACCCGCCGCCGTTTCCACCACCCGCGCCCTTTCCACCACCCGCCGCCCCGTTTCCACCACCCGCGCCCCGTTTCCACCGCGCCCCGTTTCCACCCGCGCCCCGTTTCCACCCGCGCCCCCGTTTCCACCCGCGCCCCCCGTTTCCACCCGCGCCCCCCCC	20	73	TCCAGTTTGGCCCAATTCGCCAAAA	TTTTTGGCGAATTGGGCCAAACTGG
76 TATCGCAAATCCTGCTCGTCCCTAA TTTAGGGACGAGCAGGATTTGCGAT 77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG 78 TCATGCGTTGATAATAGGGCCCAAG TCTTGGGCCCATGATATCAACGCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TCACGAGCCTGCGGTCAGTGCAAAT 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGCCCCGGCCT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCGCGCGCCGTTAGAACACCG 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCCCGCTTAGAACACCTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGCCTCGCCGC TCGCGCGAGCCCACTAGTTTTTCG	Ī	74	TGGATCTATTAGGCCGTGCGCACAG	TCTGTGCGCACGGCCTAATAGATCC
77 TCAGGGCATGCAATAATCGAGGTTC TGAACCTCGATTATTGCATGCCCTG 78 TCATGCGTTGATATATGGGCCCAAG TCTTGGGCCCATATATCAACGCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TCACGAGCCTGCGGTCAGATCTCCCTG 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCCGCGCGCCGTTAGACACCTG 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGCCTCGCCGCG TCGCGCGCCCCTTAGAACACCT		75	TCGGATGTCACCGTTTGGACTTTCA	TTGAAAGTCCAAACGGTGACATCCG
78 TCATGCGTTGATATATGGGCCCAAG TCTTGGGCCCATATATCAACGCATG 79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TCACGAGCCTGCGGTCAGTGCAAAT 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 89 TTGAAATACCACACGCCAATTCCGAT TATCGGAATGGCTATCAGGCACCGA 90 TGCATCGTGTACATGACCGCGCGA TTCCCGCGCGCCTTTCACGCGCGCCGTTTCACGCGCGCGC	j	76	TATCGCAAATCCTGCTCGTCCCTAA	TTTAGGGACGAGCAGGATTTGCGAT
79 TCAGCTGCAGCTTGTGACCAACCAC TGTGGTTGGTCACAAGCTGCAGCTG 80 TTTGTATGTCTGCCGACCGGCGACC TGGTCGCCGGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 84 TCAGGGAGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT 85 TAGGCCGGCGATCAGAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGACACGATGC 91 TCAGTGTTCTAACGGCGCGCGCTGAA TTTCACGCGCGCCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGCGAGCCCACTAGTTTTTCG		77	TCAGGGCATGCAATAATCGAGGTTC	TGAACCTCGATTATTGCATGCCCTG
80 TITGTATGTCTGCCGACCGGCGACC TGGTCGCCGGTCGGCAGACATACAA 81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC 82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT 83 TATTTGCACTGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT 84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG 85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCACGGCAGTCATGTACACGATGC 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGCACCTAGTTTTTCG	25	78	TCATGCGTTGATATATGGGCCCAAG	TCTTGGGCCCATATATCAACGCATG
81 TGATGGCGCCCGTTGATAGGTATGG TCCATACCTATCAACGGGCGCCATC  82 TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT  83 TATTTGCACTGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT  84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG  85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT  86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT  87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCCGTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		79	TCAGCTGCAGCTTGTGACCAACCAC	TGTGGTTGGTCACAAGCTGCAGCTG
TATGAGAATCGCCGGCAATCTGCTA TTAGCAGATTGCCGGCGATTCTCAT  83 TATTTGCACTGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT  84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG  85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT  86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT  87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCGTCATGAACACTG  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCCGTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGCGCACCTAAAAC		80	TTTGTATGTCTGCCGACCGGCGACC	TGGTCGCCGGTCGGCAGACATACAA
30 83 TATTTGCACTGACCGCAGGCTCGTG TCACGAGCCTGCGGTCAGTGCAAAT  84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG  85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT  86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT  87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		81	TGATGGCGCCCGTTGATAGGTATGG	
84 TCAGGGAGAACGGTTAAGTTCCCGT TACGGGAACTTAACCGTTCTCCCTG 85 TAGGCCGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT 86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT 87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC 88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGCGAGCCCACTAGTTTTTCG		82	TATGAGAATCGCCGGCAATCTGCTA	TTAGCAGATTGCCGGCGATTCTCAT
85 TAGGCCGGCGATCGAGGAGTTTGGT TACCAAACTCCTCGATCGCCGGCCT  86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT  87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGCGAGCCCACTAGTTTTTCG	30	83	TATTTGCACTGACCGCAGGCTCGTG	TCACGAGCCTGCGGTCAGTGCAAAT
86 TACACGGTGGTCTCTGATAGCGACC TGGTCGCTATCAGAGACCACCGTGT  87 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGCGAGCCCACTAGTTTTTCG		84	TCAGGGAGAACGGTTAAGTTCCCGT	
35 TGTGCAACGCCGAGGACTTCCATCA TTGATGGAAGTCCTCGGCGTTGCAC  88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA  89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA  90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC  91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCGCTTAGAACACTG  92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG  40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		85	TAGGCCGGCGATCGAGGAGTTTGGT	
88 TTCGGTGCCTGATAGCCATTCCGAT TATCGGAATGGCTATCAGGCACCGA 89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		86	TACACGGTGGTCTCTGATAGCGACC	
89 TTGAAATACCACACAGCCAATTGGC TGCCAATTGGCTGTGTGTATTTCA 90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		87	TGTGCAACGCCGAGGACTTCCATCA	
90 TGCATCGTGTACATGACTGCCGCGA TTCGCGGCAGTCATGTACACGATGC 91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG	35	88	TTCGGTGCCTGATAGCCATTCCGAT	
91 TCAGTGTTCTAACGGCGCGCGTGAA TTTCACGCGCGCCGTTAGAACACTG 92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		89	TTGAAATACCACACAGCCAATTGGC	TGCCAATTGGCTGTGTGGTATTTCA
92 TCGCTTGCAACGTTGCACCTACTCT TAGAGTAGGTGCAACGTTGCAAGCG 40 93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		90	TGCATCGTGTACATGACTGCCGCGA	TTCGCGGCAGTCATGTACACGATGC
93 TCGAAAAACTAGTGGGCTCGCCGCG TCGCGGCGAGCCCACTAGTTTTTCG		91	TCAGTGTTCTAACGGCGCGCGTGAA	
TO A STORY OF THE		92	TCGCTTGCAACGTTGCACCTACTCT	
94 TCTTTCAGGGGAACTGCCGGAGTCG TCGACTCCGGCAGTTCCCCTGAAAG	40	93	TCGAAAAACTAGTGGGCTCGCCGCG	The state of the s
		94	TCTTTCAGGGGAACTGCCGGAGTCG	TCGACTCCGGCAGTTCCCCTGAAAG

_			
	95	TTTGTGGCCTTCTTGTAAAGGCACG	TCGTGCCTTTACAAGAAGGCCACAA
ļ	96	TTCCACGAACGGCGACCCGTTGTCT	TAGACAACGGGTCGCCGTTCGTGGA
	97	TCGACCTTGCACGAAACCTAACGAG	TCTCGTTAGGTTTCGTGCAAGGTCG
	98	TGTGCAGCTTCACGAGCCAGCCTGA	TTCAGGCTGGCTCGTGAAGCTGCAC
5	99	TCGCTTTCGTGCGAATAGACGATGA	TTCATCGTCTATTCGCACGAAAGCG
	100	TTGCGCTTACAGGCTCCTAGTGGTC	TGACCACTAGGAGCCTGTAAGCGCA
	101	TCACGCGCTTAGTCGCGATCGCATA	TTATGCGATCGCGACTAAGCGCGTG
	102	TCGGAGGAGGGAGCTAGCCTTCGA	TTCGAAGGCTAGCTCCCTCCG
	103	TGCATCCGGCCTGTTGATGACGCCT	TAGGCGTCATCAACAGGCCGGATGC
10	104	TAGGCCAATCGATCTTATTGCCGAG	TCTCGGCAATAAGATCGATTGGCCT
Ī	105	TCCTTCCAATGATTGCATACGCCCA	TTGGGCGTATGCAATCATTGGAAGG
	106	TAACACTTGATCAGGCGGGTCGTCT	TAGACGACCCGCCTGATCAAGTGTT
ľ	107	TTGGAATCAAGGCCGTAAAGGACAG	TCTGTCCTTTACGGCCTTGATTCCA
	108	TGCTCCCGTAACCTGTCCACCAGTG	TCACTGGTGGACAGGTTACGGGAGC
15	109	TAGTGGTGAATGGCCGCTACCCTGA	TTCAGGGTAGCGGCCATTCACCACT
.,	110	TTGTTGAAGCGAGCTAAAACGGCCA	TTGGCCGTTTTAGCTCGCTTCAACA
	111	TCAGCGCTCCAGAATTGACAGCAAT	TATTGCTGTCAATTCTGGAGCGCTG
	2		TTTGAAAAGGGACGTGCGCTTCGAA
		TAACGCGTGGGGAATGGGACATCAA	TTTGATGTCCCATTCCCCACGCGTT
20	114	TCACGAGATACCGGCGTAAGGGTGG	TCCACCCTTACGCCGGTATCTCGTG
	115	TCTACGGCAAACGTGTGGAATGGGT	TACCCATTCCACACGTTTGCCGTAG
	116	TGTAGGGCGATGACGGCGAACTAC	TGTAGTTCGCCCGTCATCGCCCTAC
	117	TAATCGACCTCCGCACACATTCGCA	TTGCGAATGTGTGCGGAGGTCGATT
	118	TGAGTCAGCATGGCGGCGGAGATTC	TGAATCTCCGCCGCCATGCTGACTC
25	119	TAGATAAAGACGCTGGCAACACGGG	TCCCGTGTTGCCAGCGTCTTTATCT
	120	TGGTACCTCAACGCGAACCACTTGT	TACAAGTGGTTCGCGTTGAGGTACC
	121	TAAGCGATGGCTACCCAAGAGCGAT	TATCGCTCTTGGGTAGCCATCGCTT
	122	TAGAGCTTATGCAGAACCAGGCGCC	TGGCGCCTGGTTCTGCATAAGCTCT
	123	TATCGGTCTCACGCAGGGTTGGATA	TTATCCAACCCTGCGTGAGACCGAT
30	124	TTAGGTTGCCCGCCAGAAGAACAT	TATGTTTCTTCTGGCGGGCAACCTA
	125	TCGGTGCTGTTGCAAAAGCCTGTAG	TCTACAGGCTTTTGCAACAGCACCG
	126	TTGATGAAAGTTTGCGGCAGGACAC	TGTGTCCTGCCGCAAACTTTCATCA
	127	TGTTGAGTGCAGGATGCAGCGATAG	TCTATCGCTGCATCCTGCACTCAAC
	128	TAACATTGCGCGGTCCACCAGGGTT	TAACCCTGGTGGACCGCGCAATGTT
35	129	TGGGCAGTTAGAGAGGGCCAGAAGT	TACTTCTGGCCCTCTCTAACTGCCC
00	130	TTCGAGCTGGTCCCCGTGAACGTGT	TACACGTTCACGGGGACCAGCTCGA
	131	TGTCTTGGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCCCAAGAC
	132	TACTGTTGGCTTGCTCTCATGTCCA	TTGGACATGAGAGCAAGCCAACAGT
	133	TAGGACCATTCGGAAGGCGAAGATA	TTATCTTCGCCTTCCGAATGGTCCT
40	134	TCTTGGGAGGCATCCGCTATAAGGA	TTCCTTATAGCGGATGCCTCCCAAG
40		TAATAAACGGAACGCACCGCTACAG	TCTGTAGCGGTGCGTTCCGTTTATT
	135	INTIMOGOMOGOMOGOTADAG	

ļ	136	TTTGTACGTGCGGTCCCCATAAGCA	TTGCTTATGGGGACCGCACGTACAA
	137	TCGCACCAAACTGAGTTTCCCAGAC	TGTCTGGGAAACTCAGTTTGGTGCG
	138	TACCTGATCGTTCCCCTATTGGGAA	TTTCCCAATAGGGGAACGATCAGGT
	139	TGGAACAGAGGCGAGGGGACTGAGC	TGCTCAGTCCCCTCGCCTCTGTTCC
5	140	TCCCTGCCTTGGCGTGTCGGCTTAT	TATAAGCCGACACGCCAAGGCAGGG
	141	TACTCTGACACGCCAACTCCGGAAG	TCTTCCGGAGTTGGCGTGTCAGAGT
	142	TCTGACGGTTTTCATTCGGCGTGCC	TGGCACGCCGAATGAAAACCGTCAG
	143	TTGCGGTGGTTCATTGGAGCTGGCC	TGGCCAGCTCCAATGAACCACCGCA
	144	TGCATGGCCAACTAGTGACTCGCAA	TTTGCGAGTCACTAGTTGGCCATGC
10	145	TAGGCCGTAAAGCGAATCTCACCTG	TCAGGTGAGATTCGCTTTACGGCCT
	146	TCGAATATTATGCCGAGAATCCGCG	TCGCGGATTCTCGGCATAATATTCG
	147	TACAGACGAGCTCCCAACCACATGA	TTCATGTGGTTGGGAGCTCGTCTGT
	148	TGGACGGTTTGTGCTGGATTGTCTG	TCAGACAATCCAGCACAAACCGTCC
	149	TAAAGGCTATTGAGTTGGTTGGGCG	TCGCCCAACCAACTCAATAGCCTTT
15	150	TGATGGCCTATTCGGAGATCGGGCC	TGGCCGATCTCCGAATAGGCCATC
	151	TGATCCAGTAGGCAGCTTCATCCCA	TTGGGATGAAGCTGCCTACTGGATC
	152	TAATAACTCGCGCGGGTATGCTTCT	TAGAAGCATACCCGCGCGAGTTATT
	153	TGGAGGAGGTTTGTCTCGGAAAGCA	TTGCTTTCCGAGACAAACCTCCTCC
	154	TCTTTGGTATGGCACATGCTGCCCG	TCGGGCAGCATGTGCCATACCAAAG
20	155	TAGAAAGGCTCGAGCAACGGGAACT	TAGTTCCCGTTGCTCGAGCCTTTCT
	156	TAATCTACCGCACTGGTCCGCAAGT	TACTTGCGGACCAGTGCGGTAGATT
	157	TCGTGGCGGCCACAGTTTTTGGAGG	TCCTCCAAAAACTGTGGCCGCCACG
	158	TTTGCAGTTCAATCCATACGCACGT	TACGTGCGTATGGATTGAACTGCAA
	159	TGGCCCAAAGCCCCAGACCATTTTA	TTAAAATGGTCTGGGGCTTTGGGCC
25	160	TCGCCTGTCTTTGTCTCCGGACAAT	TATTGTCCGGAGACAAGACAGGCG
	161	TTGAGGCAACAGGGGCCAAAAACTA	TTAGTTTTTGGCCCCTGTTGCCTCA
	162	TAGCGGAAGTAGTCCTCGGCTCGTC	TGACGAGCCGAGGACTACTTCCGCT
	163	TGGCCCCAAGGCTTAGAGATAGTGG	TCCACTATCTCTAAGCCTTGGGGCC
	164	TGCACGTGAAGTTTAACCGCGATTC	TGAATCGCGGTTAAACTTCACGTGC
30	165	TAGCGGCAGAAACGTTCCTTGACGG	TCCGTCAAGGAACGTTTCTGCCGCT
	166	TTCGTCGAGCAGACGAGATTGCACG	TCGTGCAATCTCGTCTGCTCGACGA
	167	TTCTTTGCCGCGTAACTGACTGCTT	TAAGCAGTCAGTTACGCGGCAAAGA
	168	TTTTATGTGCCAAGGGGTTAACCGA	TTCGGTTAACCCCTTGGCACATAAA
	169	TTGTTACTGTGGTTCACGGCAGTCC	TGGACTGCCGTGAACCACAGTAACA
35	170	TCGCGCCTCGCTAGACCTTTTATTG	TCAATAAAAGGTCTAGCGAGGCGCG
	171	TACAAATGCGTGAGAGCTCCCAACT	TAGTTGGGAGCTCTCACGCATTTGT
	172	TCGCGCAGATTATAGACCCGAATGT	TACATTCGGGTCTATAATCTGCGCG
	173	TCAAATAACGCCGCTGAATCGGCGT	TACGCCGATTCAGCGGCGTTATTTG
	174	TCCTTCGTGCATCGGTGATGATGTT	TAACATCATCACCGATGCACGAAGG
40	175	TTGAACACGAGCAACACTCCAACGC	TGCGTTGGAGTGTTGCTCGTGTTCA
	176	TCAGCAGATCCTTCGTAGCGGTCGT	TACGACCGCTACGAAGGATCTGCTG

PCT/US01/26519

177		TGGAACCTGGTGAGTTGTGCCTCAT	TATGAGGCACAACTCACCAGGTTCC
178		TTCATAAGCGACAATCGCGGGCTTA	TTAAGCCCGCGATTGTCGCTTATGA
179		TCCCAACGTCACTGAAGCTCACAGT	TACTGTGAGCTTCAGTGACGTTGGG
180		TTGTCAGAGCCCGCGACTCAGACGG	TCCGTCTGAGTCGCGGGCTCTGACA
181		TTACACGAAGCCTCTCCGTGGTCCA	TTGGACCACGGAGAGGCTTCGTGTA
182		TCTCAGAAGTCCTCGGCGAACTGGG	TCCCAGTTCGCCGAGGACTTCTGAG
183		TATCCTTTTATCTACTCCGCGGCGA	TTCGCCGCGGAGTAGATAAAAGGAT
184		TAGGCGTGCAGCAACAGGATAAACC	TGGTTTATCCTGTTGCTGCACGCCT
185		TACTCTCGAGGGAGTCTCTGGCACA	TTGTGCCAGAGACTCCCTCGAGAGT
186		TTTGCCAGGTCCATCGAGACCTGTT	TAACAGGTCTCGATGGACCTGGCAA
187		TTCCACTATAACTGCGGGTCCGTGT	TACACGGACCCGCAGTTATAGTGGA
188		TGCCCAGTCGGCTCTAACAAGTTCG	TCGAACTTGTTAGAGCCGACTGGGC
189		TCGGAACGGATAATCGGCGTCAGGT	TACCTGACGCCGATTATCCGTTCCG
190		TTAAAATAAGCGCCTGGCGGGAGGA	TTCCTCCCGCCAGGCGCTTATTTTA
191		TGCGCACTCGTGAAACCTTTCTCGC	TGCGAGAAAGGTTTCACGAGTGCGC
192		TAGTTTGCCAGGTACTGGCAAGTGC	TGCACTTGCCAGTACCTGGCAAACT
193		TACAACGAGGGATGTCCAGCGGCAT	TATGCCGCTGGACATCCCTCGTTGT
194		TTTCGCAGCACCCGCTAGGTACAGT	TACTGTACCTAGCGGGTGCTGCGAA
195		TTAACCCGATTTTTGCGACTCTGCC	TGGCAGAGTCGCAAAAATCGGGTTA
196		TCGTCGCATTGCAAGCGTAGGCTTG	TCAAGCCTACGCTTGCAATGCGACG
197		TGAGCTGACGTCACCATCAGAGGAA	TTTCCTCTGATGGTGACGTCAGCTC
198		TGGAGGCTGGGGGTCGCGCTTAAGT	TACTTAAGCGCGACCCCAGCCTCC
199		TTTGTGGGAACCGCACTAGCTGGCT	TAGCCAGCTAGTGCGGTTCCCACAA
200		TCCCTCGCACTGTGTTCACCCTCTT	TAAGAGGGTGAACACAGTGCGAGGG
201		TTCATTGACTCGAATCCGCACAACG	TCGTTGTGCGGATTCGAGTCAATGA
202		TACAGGGGTTGGCCTTCGTACGTAC	TGTACGTACGAAGGCCAACCCCTGT
203		TAGGCCGTGCAACATCACACAGGAT	TATCCTGTGTGATGTTGCACGGCCT
204		TGGGCCGTGGTCACGTAATATTGGC	TGCCAATATTACGTGACCACGGCCC
205		TGCGCGGACATGAAACGACAAGGCC	TGGCCTTGTCGTTTCATGTCCGCGC
206		TCTTATTGGGTGCCGGTGTCGGATT	TAATCCGACACCGGCACCCAATAAG
207		TGGGCGGTTACCAAAAATCCGAT	TATCGGATTTTTTGGTAACCGCCCC
	4	TCCGTCGCATACCGGCTACGATCAA	TTTGATCGTAGCCGGTATGCGACGG
	5	TATGGCCGTGCTGGGGACAAGTCAA	TTTGACTTGTCCCCAGCACGGCCAT
210		TACGAAAAAGTGTGCGGATCCCCT	TAGGGGATCCGCACACTTTTTCGT
211		TCCAAGTACACCGCACGCATGTTTA	TTAAACATGCGTGCGGTGTACTTGG
212		TATCGTGCGTGGAGTGTCGCATCTA	TTAGATGCGACACTCCACGCACGAT
213		TTCCAGATACCGCCCGAACTTTGA	TTCAAAGTTCGGGGCGGTATCTGGA
214		TTCTGCTGGCAGCACGTGAAGTGGC	TGCCACTTCACGTGCTGCCAGCAGA
215		TTTGAAATTGCTCTGCCGTCAGTCA	TTGACTGACGGCAGAGCAATTTCAA
216		TAGTCAGGCGAGATGTTCAGGCAGC	TGCTGCCTGAACATCTCGCCTGACT
217		TACAAGCCGACGTTAAGCCCGCCCA	TTGGGCGGCTTAACGTCGGCTTGT
	178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207  210 211 212 213 214 215 216	178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 4 5 210 211 212 213 214 215 216	178 TTCATAAGCGACAATCGCGGGCTTA 179 TCCCAACGTCACTGAAGCTCACAGT 180 TTGTCAGAGCCCGCGACTCAGACGG 181 TTACACGAAGCCTCTCCGTGGTCCA 182 TCTCAGAAGTCCTCGGCGAACTGGG 183 TATCCTTTTATCTACTCCGCGGCGA 184 TAGGCGTGCAGCAACAGGATAAACC 185 TACTCTCGAGGGAGTCCATCGGCGACA 186 TTTGCCAGGTCCATCGAGACCTGTT 187 TTCCACTATAACTGCGGGTCCATGT 188 TGCCCAGTCGGCTCTAACAAGTTCG 189 TCGGAACGGATAATCGGCGTCAGGT 190 TTAAAATAAGCGCCTGGCGGAGGA 191 TGCGCACTCGTGAAACCTTTCTCGC 192 TAGTTTGCCAGGTACTGGCAAGTGC 193 TACAACGAGGGATGTCCAGCGGAAGTGC 194 TTTCGCAGGACCCGCTAGGTACAGT 195 TTAACCCGATTTTTGCGACTCTGCC 196 TCGTCGCATTGCAAGCGTAGGCTTG 197 TGAGCTGACGTCACCATCAGAGGAA 198 TGGAGGCTGGGGGTCGCCTTAAGT 199 TTTGTGGGAACCGCACACAGCGT 200 TCCCTCGCACTGTTCACCCCTCTT 201 TTCATTGACTCGAATCCGCACAACG 202 TACAGGGGTTGGCCTTCGTACCTCT 201 TTCATTGACTCGAATCCGCACAACG 202 TACAGGGGTTGGCCTTCGTACGTAC 203 TAGGCCGTGCACATCACACAGGAT 204 TGGGCCGTGCACATCACACAGGAT 205 TGCGCGGACATGACACGCCCCTTCGTACCTCT 201 TTCATTGACTCGAATCCGCACAACG 202 TACAGGGGTTGGCCTTCGTACGTAC 203 TAGGCCGTGCACATCACACAGGAT 204 TGGGCCGTGCACATCACACAGGAT 205 TGCGCGGACATGACACGCCCCCTTCGTACCTCT 201 TTCATTGACTCGAATCCGCACAACG 202 TACAGGGGTTGGCCTTCGTACGTAC 203 TAGGCCGTGCAACATCACACAGGAT 204 TGGGCCGTGCACACATCACACAGGAT 205 TGCGCGGACATGAAACGACAAGGCC 206 TCTTATTGGGTGCCGTTCGTACGTAC 207 TGGGGCGGTTACCAAAAAATCCGAT 210 TACGAAAAAAAGTGCGGATCAA 211 TCCAAGTACACCGCACGCATGTTTA 212 TATCGTGCGTGGGAGTGCCCCT 211 TCCAAGTACACCGCACGCATGTTTA 212 TATCGTGCGTGGAGACCGCACTTTGA 214 TTCTGCTGGCAGCACCGCACTTTGA 215 TTTGAAATTGCTCTGCCGTCAGTCA 216 TAGTCAGGCGAGATGTTCAGGCAGC 216 TAGTCAGGCGAGATGTTCAGCACAGTCACACGCCCCGAACTTTGA 217 TCCAAGTACCCCCCCGAACTTTGA 218 TTCCAGATACCGCCCCGAACTTTGA 219 TTCAAGTACACCGCCCCGAACTTTGA 211 TCCAAGTACACCGCCCCGAACTTTGA 212 TATCGTGCGTGGAGACGTCAACTCACACGCCCCGAACTTTGA 213 TTCCAGGCGAGACGTGAAGTCACACAGGCCCCGAACTTTGA 214 TTCTGCTGGCAGCACGTCAGCCCCGAACTTTGA 215 TTGAAATTGCTCTGCCGTCAGTCA 216 TAGTCAGGCGAGATGTTCAGGCAGCCCCGAACTTTGA 216 TAGTCAGGCGAGATGTTCAGGCAGCCCCGAACTTTGA 217 TCCAGGCGAGAGTGTCAGGCCCCGAACTTTGA 216 TAGTCAGGCGAGAGTGTCAGGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG

	218	TCCCTAATGAGGCCAGTAACCTGCA	TTGCAGGTTACTGGCCTCATTAGGG
	219	TGTGAGACACACATCCCCTCCAATG	TCATTGGAGGGGATGTGTGTCTCAC
	220	TCGACGGATGCAGAGTTCAGTGGTC	TGACCACTGAACTCTGCATCCGTCG
	221	TCCCGCATGCCTGGCGGTATTACAA	TTTGTAATACCGCCAGGCATGCGGG
5	222	TTTAGCAAAGCGGCGCCGTTAGCAA	TTTGCTAACGGCGCCGCTTTGCTAA
	223	TCCCGACACGGGTCAGCGTAATAAT	TATTATTACGCTGACCCGTGTCGGG
	224	TGCGACGGCCCTGAGGTATGTCGTC	TGACGACATACCTCAGGGCCGTCGC
	225	TCAAAAGTGTGTTCCCTTGCGCTTG	TCAAGCGCAAGGGAACACACTTTTG
	226	TTCTCGAAGCACAGCCCGGTTATTG	TCAATAACCGGGCTGTGCTTCGAGA
10	227	TATGCTAACCGTTGGCCATGGAACT	TAGTTCCATGGCCAACGGTTAGCAT
	228	TCTTGCGGAGTGTTAGCCCAGCGGT	TACCGCTGGGCTAACACTCCGCAAG
	229	TTGCTCCCTAGGCGCTCGGAGGAGT	TACTCCTCCGAGCGCCTAGGGAGCA
	230	TCCAATGCCTTTGAGTAAGCGATGG	TCCATCGCTTACTCAAAGGCATTGG
	231	TAGCAGATAACGTCCCAATGACGCC	TGGCGTCATTGGGACGTTATCTGCT
15	232	TTTGACCATTACGTGTTGCGCCCAT	TATGGGCGCAACACGTAATGGTCAA
	233	TTCGCGTATTTGCGGAATTCGTCTG	TCAGACGAATTCCGCAAATACGCGA
	234	TCTGCGTGTCAACAATGTCCCGCAG	TCTGCGGGACATTGTTGACACGCAG
	235	TTCTGGTGCCACGCAAGGTCCACAG	TCTGTGGACCTTGCGTGGCACCAGA
	236	TCTCCGGGAGGTCACTTAATTGCGG	TCCGCAATTAAGTGACCTCCCGGAG
20	237	TTTTCGTGATTGCCCGGAGGAGGC	TGCCTCCTCCGGGCAATCACGAAAA
	238	TTCGGGATGTAGCTGGGGCTACCGG	TCCGGTAGCCCCAGCTACATCCCGA
	239	TCGAGCCAACGCAAACACGTCCTTG	TCAAGGACGTGTTTGCGTTGGCTCG
	240	TGCAAAGCCTTTGTGGGGCGGTAGT	TACTACCGCCCCACAAAGGCTTTGC
	241	TATTCGACCGGAAATGAGGTCTTCG	TCGAAGACCTCATTTCCGGTCGAAT
25	242	TTTCGCTTGCTGAGTTGCTCTGTTC	TGAACAGAGCAACTCAGCAAGCGAA
	243	TCGCGTGAAGACCCCATTCCCGAGT	TACTCGGGAATGGGGTCTTCACGCG
	244	TAACCGTATTCGCGGTCACTTGTGG	TCCACAAGTGACCGCGAATACGGTT
	245	TGGGGCCAACCGTTTCGAGGCGTAT	TATACGCCTCGAAACGGTTGGCCCC
	246	TTTCGGCTGGCAGTCCAAACGGCTT	TAAGCCGTTTGGACTGCCAGCCGAA
30	247	TGGGTGTGGTTAGAATGCACGGTTC	TGAACCGTGCATTCTAACCACACCC
	248	TGCGAGGACCGAACTAGACAAACGG	TCCGTTTGTCTAGTTCGGTCCTCGC
	249	TACGCACGCGTGACCGAAGTTGCTG	TCAGCAACTTCGGTCACGCGTGCGT
	250	TTAAAAGGTCGCTTTGAAAGGGGGA	TTCCCCCTTTCAAAGCGACCTTTTA
	251	TTGCGATCGCTAACTGCTGGGACAA	TTTGTCCCAGCAGTTAGCGATCGCA
35	252	TGGAGGTATAAGCGGAGCGGCCTCA	TTGAGGCCGCTCCGCTTATACCTCC
	253	TATGCTGACATGTCGTGCACCTCGT	TACGAGGTGCACGACATGTCAGCAT
	254	TTGTGGTTAAAGCGTCCGTTCAACG	TCGTTGAACGGACGCTTTAACCACA
	255	TCGTTCACACCGGCGTAAGCTGCGT	TACGCAGCTTACGCCGGTGTGAACG
	256	TCCTATCCCGGCGAGAACTTCTGTG	TCACAGAAGTTCTCGCCGGGATAGG
40	257	TGTCTGCACTCACGCAGCGGAGGGA	TTCCCTCCGCTGCGTGAGTGCAGAC
	258	TGCACGAGTTGGTGCTCGGCAGATT	TAATCTGCCGAGCACCAACTCGTGC

ſ	250	TAACGTCGCACGACACGCTTCGTC	TGACGAACGTGTGTCGTGCGACGTT
	259	TATGCGCGCTTATCCTAGCATGGTC	TGACCATGCTAGGATAAGCGCGCAT
	260	TTCACGTTTTCGTCTCGACATGAGG	TCCTCATGTCGAGACGAAAACGTGA
	261	TTGTGCCTCATCCTTAGGATACGGC	TGCCGTATCCTAAGGATGAGGCACA
	262	TAGGTGGTGTGGGTCAACCGCTTTA	TTAAAGCGGTTGACCCACACCACCT
5	263	TCTGGATCGAAGGGACTGCAAGCTC	TGAGCTTGCAGTCCCTTCGATCCAG
	264	TTAGATCAACTCGCGTACGCATGGA	TTCCATGCGTACGCGAGTTGATCTA
	265	TGATCCTGCGGAGAAGAGAGTGCAG	TCTGCACTCTCTTCTCCGCAGGATC
	266	TTACGTGTGGAGAGAGAGAGAGCCG	TCGGTTCGGGGCATCTCCACACGTA
	267	TGCGCTATGTCAATCGTGGGCGTAG	TCTACGCCACGATTGACATAGCGC
10	268		TGGTGTCGACGCTAGAAACCTCGCT
	269	TAGCGAGGTTTCTAGCGTCGACACC	TATTCCACAACGGCAAAACCTGGGT
	270	TACCCAGGTTTTGCCGTTGTGGAAT	TGAGACTACGCAGCCGTTAACAGGG
,	271	TCCCTGTTAACGGCTGCGTAGTCTC	TGCAATTGGCGGGTGAAATCGGCCT
	272	TAGGCCGATTTCACCCGCCAATTGC	TTCAAAGGGCAAGGAGTGAGGGCTC
15	273	TGAGCCCTCACTCCTTGCCCTTTGA	TTGACTGCGAGGCGGATGTCCACCC
	274	TGGGTGGACATCCGCCTCGCAGTCA	TATCGTAGCACGGTTCTCAGCCATC
	275	TGATGGCTGAGAACCGTGCTACGAT	TITCTGGCAGCACTCCTAACGTCGA
	276	TTCGACGTTAGGAGTGCTGCCAGAA	TCTATGCAAGGTCCAGACCCATTCG
	277	TCGAATGGGTCTGGACCTTGCATAG	
20	278	TGTGCACCAGACATTCGAACTCGGA	TTCCGAGTTCGAATGTCTGGTGCAC TATGGATGGGATATACGGGGCCTCT
	279	TAGAGGCCCCGTATATCCCATCCAT	
	280	TAACGCCTGTTCAGAGCATCAGCGG	TCCGCTGATGCTCTGAACAGGCGTT
	281	TAAGGCTCAACACGCCTATGTGCGC	TGCGCACATAGGCGTGTTGAGCCTT
	282	TAGTCCGTGTTGCCAGATTGGCTCG	TCGAGCCAATCTGGCAACAC
25	283	TATGTCCCATGTAAAGACGCGTGTG	TCACACGCGTCTTTACATGGGACAT
	284	TATGGAGTCTGCTCACGCCCAAAGG	TCCTTTGGGCGTGAGCAGACTCCAT
	285	TCGGCCTCCAACAAGGAGCACTAAC	TGTTAGTGCTCCTTGTTGGAGGCCG
	286	TCAGAGCCGTGGCAACATTGCGAGC	TGCTCGCAATGTTGCCACGGCTCTG
	287	TTCATTTGAATGAGGTGCGCACCGG	TCCGGTGCGCACCTCATTCAAATGA
30	288	TGACGTACCGGAAGCGCCGTATAAA	TTTTATACGGCGCTTCCGGTACGTC
	289	TATGCGAGCAATGGGATCCGGATTC	TGAATCCGGATCCCATTGCTCGCAT
	290	TAGAGTGAGGCCTCCCTGACCAGTG	TCACTGGTCAGGGAGGCCTCACTCT
	291	TCGCACCGTAAGTAGATTTGCCCGC	TGCGGGCAAATCTACTTACGGTGCG
	292	TTGAACCTTTGAGCACGTCGTGCGC	TGCGCACGACGTGCTCAAAGGTTCA
<b>35</b> .	293	TTCCGCCTTTTTGGTTACCTCGAAG	TCTTCGAGGTAACCAAAAAGGCGGA
	294	TGAACGCCAACGGCACTAACACATC	TGATGTGTTAGTGCCGTTGGCGTTC
	295	TCCGACAGCAGCCAAGACGTCCCAG	TCTGGGACGTCTTGGCTGCTGTCGG
	296	TCATAAAAAACCTGGGGCTCTGCG	TCGCAGAGCCCCAGGTTTTTTATG
	297	TTGCCAACTGTGCAGACCGGACTTA	TTAAGTCCGGTCTGCACAGTTGGCA
40	298	TGGCGAAAGAGCGAAACCGGCTCGT	TACGAGCCGGTTTCGCTCTTTCGCC
	299	TGGGATGCGTATTTTAGCGAACACG	TCGTGTTCGCTAAAATACGCATCCC

-			
Į.	300	TTGGGATTCAGCGACCAGTACGCGA	TTCGCGTACTGGTCGCTGAATCCCA
	301	TCCCGATATTCGCCCGGCCTATTCG	TCGAATAGGCCGGGCGAATATCGGG
	302	TCGAGAAGATGCCTCACGCAACCAA	TTTGGTTGCGTGAGGCATCTTCTCG
	303	TAACCTTGACCCGTGGATGACGCTA	TTAGCGTCATCCACGGGTCAAGGTT
5	6	TTTGCAACGGCTGGTCAACGTCAA	TTTGACGTTGACCAGCCCGTTGCAA
	7	TCGCATAGGTTGCCGATTTCGTCAA	TTTGACGAAATCGGCAACCTATGCG
	306	TGCTTCCGGATGAACGGGATGGTTG	TCAACCATCCCGTTCATCCGGAAGC
[	307	TCCCTCCATGTTCTTCGAACGGTTT	TAAACCGTTCGAAGAACATGGAGGG
[	308	TTTGATGGGCGGCAATGCTCTTGCT	TAGCAAGAGCATTGCCGCCCATCAA
10	309	TATTGTGAGATGCGCCAAATTCCCC	TGGGGAATTTGGCGCATCTCACAAT
	310	TTCAGCACAGCCAGACGGTCAACTT	TAAGTTGACCGTCTGGCTGTGCTGA
ſ	311	TACTCCACTCCTCGGTGGCAAACTA	TTAGTTTGCCACCGAGGAGTGGAGT
	312	TTCTGGGCATGCCTGGACGGAGACG	TCGTCTCCGTCCAGGCATGCCCAGA
Ī	313	TTCTCAACTCCGGTACGACGAAACA	TTGTTTCGTCGTACCGGAGTTGAGA
15	314	TTTGCGTGGTCAAAGGCGCAACGTG	TCACGTTGCGCCTTTGACCACGCAA
Ī	315	TAGACAGCGATCCGCGGCTCATGAT	TATCATGAGCCGCGGATCGCTGTCT
Ī	316	TCGCGTCTCTAACTGAGAGCAGCCA	TTGGCTGCTCTCAGTTAGAGACGCG
Ī	317	TAGGCGCACATGTACGGACATTCAG	TCTGAATGTCCGTACATGTGCGCCT
ĺ	318	TGATGAGTGGCACGTCGGTGTGTAA	TTTACACACCGACGTGCCACTCATC
20	319	TTGATCCATATTGTCGGACGTTGCG	TCGCAACGTCCGACAATATGGATCA
	320	TACCTGCCGGGAGTTCATAGGCTAG	TCTAGCCTATGAACTCCCGGCAGGT
	321	TAGCATTGGCGTTTTTCCGCAACGA	TTCGTTGCGGAAAAACGCCAATGCT
[	322	TGGTAATATTCAGCGCGACCGCTCA	TTGAGCGGTCGCGCTGAATATTACC
	323	TATAGCGTACGACGAGGTGACGCGC	TGCGCGTCACCTCGTCGTACGCTAT
25	324	TTAGGTCACGATGCGTTTGACGCTA	TTAGCGTCAAACGCATCGTGACCTA
[	325	TACTGCCCGTACCTCTGGTTCTGGC	TGCCAGAACCAGAGGTACGGGCAGT
	326	TCCTTTGGCCTGAAGTTGTCGTAGC	TGCTACGACAACTTCAGGCCAAAGG
	327	TGTGCCCACGAGCGTATCGTTGTA	TTACAACGATACGCTCGTGGGGCAC
	328	TAGGCGCTACGTGGGCCTGGAGCAA	TTTGCTCCAGGCCCACGTAGCGCCT
30	329	TGGGTGCTACCATTGCATTAGTCCG	TCGGACTAATGCAATGGTAGCACCC
Į	330	TACCACGCGCGTACGTGTAACCGAG	TCTCGGTTACACGTACGCGCGTGGT
ĺ	331	TCCATGATGCATTGGGTGCATTTAG	TCTAAATGCACCCAATGCATCATGG
	332	TGGTCCGGCCCTACGAAACGTTCGA	TTCGAACGTTTCGTAGGGCCGGACC
	333	TCCGTGTGGCTGGAGATTCGTGTGA	TTCACACGAATCTCCAGCCACACGG
35	334	TGTTAGGGCGACGCATATTGGCACA	TTGTGCCAATATGCGTCGCCCTAAC
. [	335	TGGGTCAGTCAGGTGCGTTAGGATC	TGATCCTAACGCACCTGACTGACCC
	336	TGCCGTGAAGTCGAATGCAGATCGA	TTCGATCTGCATTCGACTTCACGGC
	337	TGCCACCACCAGTGCATTCAGGTA	TTACCTGAATGCACTGGGTGGTGGC
	338	TGAGCTTAGTTTGCGGTCATCGGGC	TGCCCGATGACCGCAAACTAAGCTC
40	339	TTGTTTGCCGCCATTAGGGAGTAAC	TGTTACTCCCTAATGGCGGCAAACA
	340	TGCTCCGCTGGATGTGCCGGTTTAG	TCTAAACCGGCACATCCAGCGGAGC

-243-

PCT/US01/26519

г		TO TOTAL	TAACACCCATCTCCCATCCTACCC
	341	TCGGTAGCATGCGAGATCCCTGTTA	TTAACAGGGATCTCGCATGCTACCG TTCGCAGGCAACTGGTAGAGCGTAG
	342	TCTACGCTCTACCAGTTGCCTGCGA	TCTTGGCAAATACAGCAGGAGGCAC
	343	TGTGCCTCCTGCTGTATTTGCCAAG	
	344	TTTGCGACTCGACTTGGACGAGTAG	TCTACTCGTCCAAGTCGAGTCGCAA
5	345	TTCTGGGAGCTGTTTACTCCAGCCA	TTGGCTGGAGTAAACAGCTCCCAGA
]	346	TTGCACGCGGAACTCCCTTTACCAT	TATGGTAAAGGGAGTTCCGCGTGCA
	347	TTGGCAGCAAATGAATCGAAAGCAC	TGTGCTTTCGATTCATTTGCTGCCA
	348	TAACTGGTGACGCGGTACAGCGAAG	TCTTCGCTGTACCGCGTCACCAGTT
	349	TAGACGATTACGCTGGACGCCGTCG	TCGACGCGTCCAGCGTAATCGTCT
10	350	TATGCCCTCCTTCATGGAAAGGGTT	TAACCCTTTCCATGAAGGAGGGCAT
[	351	TATTCTCGGAGCGTATGCGCCAGAA	TTTCTGGCGCATACGCTCCGAGAAT
	352	TATAGCGGAGTTTGGGTACGCGAAC	TGTTCGCGTACCCAAACTCCGCTAT
	353	TACCTACGCATACCGCTTGGCGAGG	TCCTCGCCAAGCGGTATGCGTAGGT
	354	TGATTACCTGAATGGCCAAGCGAGC	TGCTCGCTTGGCCATTCAGGTAATC
15	355	TCCTGTTAGCATCACGGCGCTTAGG	TCCTAAGCGCCGTGATGCTAACAGG
	356	TCGGAATGATGCGCTCGACAACGCT	TAGCGTTGTCGAGCGCATCATTCCG
	357	TTGAGAGAGGCGTTGGTTAAGGCAA	TTTGCCTTAACCAACGCCTCTCTCA
	358	TAAGCAGGCGAAGGGATACTCCTCG	TCGAGGAGTATCCCTTCGCCTGCTT
	359	TTCACGACAGACGGGCCGAGATTAC	TGTAATCTCGGCCCGTCTGTCGTGA
20	360	TAAGCAATTTGGCCTCGTTTTGTGA	TTCACAAAACGAGGCCAAATTGCTT
	361	TGCTGGTTGCGGTAGGATCGCATAT	TATATGCGATCCTACCGCAACCAGC
	362	TTTGTGAATCCGTTCTGTCCCCGAC	TGTCGGGGACAGAACGGATTCACAA
	363	TTGGGCTCCTCTGAGGCGAGATGGC	TGCCATCTCGCCTCAGAGGAGCCCA
	364	TGGATAGAGTGAATCGACCGGCAAC	TGTTGCCGGTCGATTCACTCTATCC
25	365	TTGCACCGAACGTGCACGAGTAATT	TAATTACTCGTGCACGTTCGGTGCA
	366	TGCCAGTATTCTCGGGTGTTGGACG	TCGTCCAACACCCGAGAATACTGGC
	367	TTCGCTACCTAAGACCGGGCCATAC	TGTATGGCCCGGTCTTAGGTAGCGA
	368	TTGGCATTGACGAGCAGCAGTCAGT	TACTGACTGCTGCTCAATGCCA
	369	TCGCGTCCCAGCGCCCTTGGAGTAT	TATACTCCAAGGGCGCTGGGACGCG
30	370	TATGAAGCCTACCGGGCGACTTCGT	TACGAAGTCGCCCGGTAGGCTTCAT
	371	TCCAGACAGATGGCCTGGAACCATG	TCATGGTTCCAGGCCATCTGTCTGG
	372	TTGGCGTGGGACCATCTCAAAGCTA	TTAGCTTTGAGATGGTCCCACGCCA
	373	TCCGCATGGGAACACGTGTCAAGGT	TACCTTGACACGTGTTCCCATGCGG
	374	TGCCCACTCGTCAGCTGGACGTAAT	TATTACGTCCAGCTGACGAGTGGGC
35	375	TATTACGGTCGTGATCCAGAAAGCG	TCGCTTTCTGGATCACGACCGTAAT
	376	TTGCGAGGTGAGCACCTACGAGAGA	TTCTCTCGTAGGTGCTCACCTCGCA
-	377	TGGGCCGCATTCTTGATGTCCATTC	TGAATGGACATCAAGAATGCGGCCC
	378	TCCTCGGATGTGGGCTCTCGCCTAG	TCTAGGCGAGAGCCCACATCCGAGG
	379	TTAGGCATGTTGGCGTGAGCGCTAT	TATAGCGCTCACGCCAACATGCCTA
40	380	TCGATACGAACGAGGATGTCCGCCT	TAGGCGGACATCCTCGTTCGTATCG
	381	TTACGCCGGTTAGCACGGTGCGCTA	TTAGCGCACCGTGCTAACCGGCGTA

			<u> </u>
·	382	TCATACGATGTCCGGGCCGTGTCGC	TGCGACACGGCCCGGACATCGTATG
	383	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACTGCGGAT
	384	TGGGTAAGGGACAAAGATGGGATGG	TCCATCCCATCTTTGTCCCTTACCC
	385	TATTGGAGTGTTTTGGTGAATCCGC	TGCGGATTCACCAAAACACTCCAAT
5	386	TGAACCGAGCCAACGTATGGACACG	TCGTGTCCATACGTTGGCTCGGTTC
	387	TGCCGTCAAGCTTAAGGTTTTGGGC	TGCCCAAAACCTTAAGCTTGACGGC
	388	TACCTGCTTTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
	389	TAATCGTGGGCGCAGCAAACGTATA	TTATACGTTTGCTGCGCCCACGATT
	390	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
10	391	TACCCGTCGATGCTTCCTCCTCAGA	TTCTGAGGAGGAAGCATCGACGGGT
	392	TATCCGGGTGGGCGATACAAGAGAT	TATCTCTTGTATCGCCCACCCGGAT
	393	TTTCCGCATGAGTCAGCTTTGAAAA	TTTTCAAAGCTGACTCATGCGGAA
	394	TGCAAAGTCCCACTGGCAAGCCGAT	TATCGGCTTGCCAGTGGGACTTTGC
•	395	TCGACCTCGGCTTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTCG
15	396	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACTGCGCTCATGAG
	397	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCCGTGGATCCTTCATCTG
	398	TTCAAAGGCTCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTTGA
	399	TTCCGCTAATTTCCAATCAGGGCTC	TGAGCCCTGATTGGAAATTAGCGGA
	8	TCCGTTTGCGGTCGTCCTTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
20	9	TTTCGCTTTCGTGGCTGCACTTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
	402	TCTTAGTTGGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
	403	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
	404	TCCGATTACAAATTGACTGACCGCA	TTGCGGTCAGTCAATTTGTAATCGG
	405	TAGACGTACGTGAGCCTCCCGTGTC	TGACACGGGAGGCTCACGTACGTCT
25	406	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
	407	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
	408	TTGTTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTCAAAAACA
	409	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
	410	TGCCCGCTAATCCGACACCCAGTTT	TAAACTGGGTGTCGGATTAGCGGGC
30	411	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
	412	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTGATTC
	413	TAACCAGCCGCAGTAGCTTACGTCG	TCGACGTAAGCTACTGCGGCTGGTT
	414	TTTTTCTGAGGGACACGCGGGCGTT	TAACGCCCGCGTGTCCCTCAGAAAA
	415	TGGTGCTCCGTTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
35	416	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
	417	TTAAGACATACCGACGCCCTTGCCT	TAGGCAAGGCGTCGGTATGTCTTA
	418	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
	419	TTAAAAGTTTCGCGGAGGTCGGGCT	TAGCCCGACCTCCGCGAAACTTTTA
	420	TCGGTCCAGACGAGCTGAGTTCGGC	TGCCGAACTCAGCTCGTCTGGACCG
40	421	TCGGCGTAGCGGCTACGGACTTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
l	422	TGCTTGGATGCCCATGCGGCAAGGT	TACCTTGCCGCATGGGCATCCAAGC

	423	TAGCGGGATCCCAGAGTTTCGAAAA	TTTTTCGAAACTCTGGGATCCCGCT
	424	TGAGCTTGAGAGCGAGGTCATCCTC	TGAGGATGACCTCGCTCTCAAGCTC
	425	TGCATCGGCCGTTTTGACCATATTC	TGAATATGGTCAAAACGGCCGATGC
	426	TCATAGCGCTGCACGTTTCGACCGC	TGCGGTCGAAACGTGCAGCGCTATG
5	427	TACCCGACAACCACCAATTCAAAAA	TTTTTGAATTGGTGGTTGTCGGGT
	428	TGCGAACACTCATAAGAGCGCCCTG	TCAGGGCGCTCTTATGAGTGTTCGC
	429	TCCGCCGAGTGTAGAGAGACTCCGA	TTCGGAGTCTCTCTACACTCGGCGG
	430	TGACATCGGGAGCCGGAAACATGAG	TCTCATGTTTCCGGCTCCCGATGTC
	431	TTCGTGTAGACTCGGCGACAGGCGT	TACGCCTGTCGCCGAGTCTACACGA
10	432	TATGCGCATATACJGACTGCGCAGG	TCCTGCGCAGTCAGTATATGCGCAT
	433	TACAAGCGAACCCGAGTTTTGATGA	TTCATCAAAACTCGGGTTCGCTTGT
	434	TGCATGAGACTCCGCGAAGACATGT	TACATGTCTTCGCGGAGTCTCATGC
	435	TTCCTACATGTCGCGTCACGATCAC	TGTGATCGTGACGCGACATGTAGGA
	436	TGACCGATCGCGAAGTCGTACACAT	TATGTGTACGACTTCGCGATCGGTC
15	437	TGTCGCCAGGACTGGGCCGATGTGA	TTCACATCGGCCCAGTCCTGGCGAC
	438	TACCGATAAGACTTGCATCCGAACG	TCGTTCGGATGCAAGTCTTATCGGT
	439	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCGGACTGGTTATGGA
	440	TACGCGCCCTGCATCTCGTATTTAA	TTTAAATACGAGATGCAGGGCGCGT
	441	TAGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
20	442	TAGAGGCTTGGCAAGTAGGGACCCT	TAGGGTCCCTACTTGCCAAGCCTCT
	443	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
	444	TGCTGGACTTAGTCGTGTTCGGCGG	TCCGCCGAACACGACTAAGTCCAGC
	445	TAGGCATCGTGCCGGATTGCTCCCT	TAGGGAGCAATCCGGCACGATGCCT
:	446	TTGCGCATGTCGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
25	447	TTTCGGGTCACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
,	448	TACCCATCGCCGGAAAGCGATGTTG	TCAACATCGCTTTCCGGCGATGGGT
	449	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
	450	TACTTCCAAGTCCTTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAGT
	451	TTCTCAATATTCCCGTAGTCGCCCA	TTGGGCGACTACGGGAATATTGAGA
30	452	TAACAGTTCCTCTTTTTCCTGGCGC	TGCGCCAGGAAAAAGAGGAACTGTT
	453	TCGTCCTCCATGTTGTCACGAACAG	TCTGTTCGTGACAACATGGAGGACG
	454	TTGCGCAGACCTACCTGTCTTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
j	455	TATGGACGGCTTCGCAGTCCTCCTT	TAAGGAGGACTGCGAAGCCGTCCAT
	456	TTGAACGCTTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
35	457	TTGAACCCTGCCGCGAGCGATAACC	TGGTTATCGCTCGCGGCAGGGTTCA
	458	TGTTCTTGCGCGATGAATCAGGACC	TGGTCCTGATTCATCGCGCAAGAAC
	459	TAGGGTACGTGTCGCAGCTTCGCGT	TACGCGAAGCTGCGACACGTACCCT
	460	TACCCTTGCTCCGCCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
	461	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTTCAATCCTTGTCCC
40	462	TTGTCGTTGCTCCCGAGTACCATTG	TCAATGGTACTCGGGAGCAACGACA
	463	TGTTGTCCGAGACGTTTGTGTCAGC	TGCTGACACAACGTCTCGGACAAC

Г	200	TCATACGATGTCCGGGCCGTGTCGC	TGCGACACGGCCCGGACATCGTATG
-	382	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACTGCGGAT
}-	383	TGGGTAAGGGACAAAGATGGGATGG	TCCATCCCATCTTTGTCCCTTACCC
	384		TGCGGATTCACCAAAACACTCCAAT
_ }	385	TATTGGAGTGTTTTGGTGAATCCGC	TCGTGTCCATACGTTGGCTCGGTTC
5	386	TGAACCGAGCCAACGTATGGACACG	
-	387	TGCCGTCAAGCTTAAGGTTTTGGGC	TGCCCAAAACCTTAAGCTTGACGGC
ļ.	388	TACCTGCTTTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
	389	TAATCGTGGGCGCAGCAAACGTATA	TTATACGTTTGCTGCGCCCACGATT
1	390	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
10	391	TACCCGTCGATGCTTCCTCCTCAGA	TTCTGAGGAGGAAGCATCGACGGGT
ļ	392	TATCCGGGTGGGCGATACAAGAGAT	TATCTCTTGTATCGCCCACCCGGAT
	393	TTTCCGCATGAGTCAGCTTTGAAAA	TTTTTCAAAGCTGACTCATGCGGAA
1	394	TGCAAAGTCCCACTGGCAAGCCGAT	TATCGGCTTGCCAGTGGGACTTTGC
`	395	TCGACCTCGGCTTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTCG
15	396	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACTGCGCTCATGAG
	397	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCCGTGGATCCTTCATCTG
	398	TTCAAAGGCTCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTTGA
	399	TTCCGCTAATTTCCAATCAGGGCTC	TGAGCCCTGATTGGAAATTAGCGGA
	8	TCCGTTTGCGGTCGTCCTTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
20	Ç	TTTCGCTTTCGTGGCTGCACTTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
	402	TCTTAGTTGGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
	403	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
	404	TCCGATTACAAATTGACTGACCGCA	TTGCGGTCAGTCAATTTGTAATCGG
	405	TAGACGTACGTGAGCCTCCCGTGTC	TGACACGGGAGGCTCACGTACGTCT
25	406	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
	407	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
	408	TTGTTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTCAAAAACA
	409	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
	410	TGCCCGCTAATCCGACACCCAGTTT	TAAACTGGGTGTCGGATTAGCGGGC
30	411	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
	412	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTGATTC
	413	TAACCAGCCGCAGTAGCTTACGTCG	TCGACGTAAGCTACTGCGGCTGGTT
	414	TTTTCTGAGGGACACGCGGGCGTT	TAACGCCCGCGTGTCCCTCAGAAAA
	415	TGGTGCTCCGTTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
35	416	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
	417	TTAAGACATACCGACGCCCTTGCCT	TAGGCAAGGCCGTCGGTATGTCTTA
	418	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
	419	TTAAAAGTTTCGCGGAGGTCGGGCT	TAGCCCGACCTCCGCGAAACTTTTA
	420	TCGGTCCAGACGAGCTGAGTTCGGC	TGCCGAACTCAGCTCGTCTGGACCG
40	421	TCGGCGTAGCGGCTACGGACTTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
- <del>-</del>	422	TGCTTGGATGCCCATGCGGCAAGGT	TACCTTGCCGCATGGGCATCCAAGC
	144	1.55.,55.,55.	<u> </u>

5	423 424 425 426 427 428	TAGCGGGATCCCAGAGTTTCGAAAA TGAGCTTGAGAGCGAGGTCATCCTC TGCATCGGCCGTTTTGACCATATTC TCATAGCGCTGCACGTTTCGACCGC	TTTTTCGAAACTCTGGGATCCCGCT TGAGGATGACCTCGCTCTCAAGCTC TGAATATGGTCAAAACGGCCGATGC
5	425 426 427	TGCATCGGCCGTTTTGACCATATTC	TGAATATGGTCAAAACGGCCGATGC
5	426 427		·
5	427	TCATAGCGCTGCACGTTTCGACCGC	TOOOOTOO A A AOOTOO A OOOOT-TO
5			TGCGGTCGAAACGTGCAGCGCTATG
-	420	TACCCGACAACCACCAATTCAAAAA	TTTTTGAATTGGTGGTTGTCGGGT
	420	TGCGAACACTCATAAGAGCGCCCTG	TCAGGGCGCTCTTATGAGTGTTCGC
	429	TCCGCCGAGTGTAGAGAGACTCCGA	TTCGGAGTCTCTCTACACTCGGCGG
1-	430	TGACATCGGGAGCCGGAAACATGAG	TCTCATGTTTCCGGCTCCCGATGTC
:	431	TTCGTGTAGACTCGGCGACAGGCGT	TACGCCTGTCGCCGAGTCTACACGA
10	432	TATGCGCATATACTGACTGCGCAGG	TCCTGCGCAGTCAGTATATGCGCAT
	433	TACAAGCGAACCCGAGTTTTGATGA	TTCATCAAAACTCGGGTTCGCTTGT
Ì	434	TGCATGAGACTCCGCGAAGACATGT	TACATGTCTTCGCGGAGTCTCATGC
	435	TTCCTACATGTCGCGTCACGATCAC	TGTGATCGTGACGCGACATGTAGGA
Ī	436	TGACCGATCGCGAAGTCGTACACAT	TATGTGTACGACTTCGCGATCGGTC
15	437	TGTCGCCAGGACTGGGCCGATGTGA	TTCACATCGGCCCAGTCCTGGCGAC
	438	TACCGATAAGACTTGCATCCGAACG	TCGTTCGGATGCAAGTCTTATCGGT
	439	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCGGACTGGTTATGGA
	440	TACGCGCCCTGCATCTCGTATTTAA	TTTAAATACGAGATGCAGGGCGCGT
Ì	441	TAGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
20	442	TAGAGGCTTGGCAAGTAGGGACCCT	TAGGGTCCCTACTTGCCAAGCCTCT
	443	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
	444	TGCTGGACTTAGTCGTGTTCGGCGG	TCCGCCGAACACGACTAAGTCCAGC
	445	TAGGCATCGTGCCGGATTGCTCCCT	TAGGGAGCAATCCGGCACGATGCCT
	446	TTGCGCATGTCGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
25	447	TTTCGGGTCACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
	448	TACCCATCGCCGGAAAGCGATGTTG	TCAACATCGCTTTCCGGCGATGGGT
	449	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
	450	TACTTCCAAGTCCTTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAGT
	451	TTCTCAATATTCCCGTAGTCGCCCA	TTGGGCGACTACGGGAATATTGAGA
30	452	TAACAGTTCCTCTTTTTCCTGGCGC	TGCGCCAGGAAAAAGAGGAACTGTT
	453	TCGTCCTCCATGTTGTCACGAACAG	TCTGTTCGTGACAACATGGAGGACG
	454	TTGCGCAGACCTACCTGTCTTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
	455	TATGGACGGCTTCGCAGTCCTCCTT	TAAGGAGGACTGCGAAGCCGTCCAT
	456	TTGAACGCTTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
35	457	TTGAACCCTGCCGCGAGCGATAACC	TGGTTATCGCTCGCGGCAGGGTTCA
	458	TGTTCTTGCGCGATGAATCAGGACC	TGGTCCTGATTCATCGCGCAAGAAC
	459	TAGGGTACGTGTCGCAGCTTCGCGT	TACGCGAAGCTGCGACACGTACCCT
	460	TACCCTTGCTCCGCCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
	461	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTTCAATCCTTGTCCC
40	462	TTGTCGTTGCTCCCGAGTACCATTG	TCAATGGTACTCGGGAGCAACGACA
	463	TGTTGTCCGAGACGTTTGTGTCAGC	TGCTGACACAACGTCTCGGACAAC

PCT/US01/26519

ſ	464	Ti	GCTGGTGAACACTCACGAACCGCT	TAGCGGTTCGTGAGTGTTCACCAGC
	465	1	GCAGACAGGGCAAATCGGTGCAAA	TITTGCACCGATTTGCCCTGTCTGC
	466	1	CCCATCACAACGAGTGGCGACTTT	TAAAGTCGCCACTCGTTGTGATGGG
	467	7	GCTTCTACAGCTGGCGTGCTAGCG	TCGCTAGCACGCCAGCTGTAGAAGC
5	468	1	GAATGTGTGCCGACCATTCTAGCC	TGGCTAGAATGGTCGGCACACATTC
	469	1	CCAGCGGAAGTTAGAGCTCTGTGG	TCCACAGAGCTCTAACTTCCGCTGG
Ī	470	7	TTTTTACCGACCACTCCATGTCGG	TCCGACATGGAGTGGTCGGTAAAAA
Ī	471	-	rGCGGCTATGTGATGACGGCCTAGC	TGCTAGGCCGTCATCACATAGCCGC
	472	1	TAGTACACGGGCGTGTTAGCGCTCC	TGGAGCGCTAACACGCCCGTGTACT
10	473	ŀ	TTCCTGTGTGGTGGCGCACTCCCAC	TGTGGGAGTGCGCCACACACAGGA
	474	ŀ	TCCAACTAACCAATCGCGCGGATGA	TTCATCCGCGCGATTGGTTAGTTGG
	475	T	TAGTGAGTGACCAAGGCAGGAGCAA	TTTGCTCCTGCCTTGGTCACTCACT
	476	1	TCATCTTTCGCGGAGTTTATTGCGG	TCCGCAATAAACTCCGCGAAAGATG
	477	1	TCTTCGTCCGGTTAGTGCGACAGCA	TTGCTGTCGCACTAACCGGACGAAG
15	478		TCTCACGAAAACGTGGGCCCGAAAT	TATTTCGGGCCCACGTTTTCGTGAG
	479		TCGCAGCAGCTGAACTCTAGCATTG	TCAATGCTAGAGTTCAGCTGCTGCG
	480		TAGGAGACATACGCCCAAATGGTGC	TGCACCATTTGGGCGTATGTCTCCT
	481		TATTGAGAACTCGTGCGGGAGTTTG	TCAAACTCCCGCACGAGTTCTCAAT
	482	$\Box$	TCTCTTTGTAGGCCCAGGAGGAGCA	TTGCTCCTCCTGGGCCTACAAAGAG
20	483		TGCCGCAGGGTCGATAATTGGTCTA	TTAGACCAATTATCGACCCTGCGGC
	484		TAAACGCCGCCCTGAGACTATTGGG	TCCCAATAGTCTCAGGGCGGCGTTT
	485		TCTGAGTTGCCTGGAACGTTGGACT	TAGTCCAACGTTCCAGGCAACTCAG
	486		TCGGATGGGTTGCAGAGTATGGGAT	TATCCCATACTCTGCAACCCATCCG
	487		TCTGACCTTTGGGGGTTAGTGCGGT	TACCGCACTAACCCCCAAAGGTCAG
25	488		TGGAAATGAGAACCTTACCCCAGCG	TCGCTGGGGTAAGGTTCTCATTTCC
	489		TAACGCATCGTCCGTCAACTCATCA	TTGATGAGTTGACGGACGATGCGTT
	490		TTGGAGAGAGACTTCGGCCATTGTT	TAACAATGGCCGAAGTCTCTCCA
	491		TTTGCGCTCATTGGATCTTGTCAGG	TCCTGACAAGATCCAATGAGCGCAA
	492		TAGCGCGTTAAAGCACGGCAACATT	TAATGTTGCCGTGCTTTAACGCGCT
30	493		TAGCCAGTAAACTGTGGGCGGCTGT	TACAGCCGCCCACAGTTTACTGGCT
	494		TCGACTGATGTGCAACCAGCAGCTG	TCAGCTGCTGGTTGCACATCAGTCG
	495		TGGTTGCTCATACGACGAGCGAGTG	TCACTCGCTCGTCGTATGAGCAACC
		10	TGTCCAACGCGCAACTCCGATTCAA	TTTGAATCGGAGTTGCGCGTTGGAC
•		.11	TTTGCCGCACCGTCCGTCATCTCAA	TTTGAGATGACGGACGGTGCGGCAA
35	498		TAGAACCTCCGCGCCTCCGTAGTAG	TCTACTACGGAGGCGCGGAGGTTCT
	499		TAAAGGAGCTTTCGCCCAACGTACC	TGGTACGTTGGGCGAAAGCTCCTTT
	500		TAGTGATTGTGCCACTCCACAGCTC	TGAGCTGTGGAGTGGCACAATCACT
	501		TGCGATCGTCGAGGGTTGAGCTGAA	TTTCAGCTCAACCCTCGACGATCGC
	502		TGGGAGACAGCCATTATGGTCCTCG	TCGAGGACCATAATGGCTGTCTCCC
40	503		TGAGACGCTGTCACTCCGGCAGAAC	TGTTCTGCCGGAGTGACAGCGTCTC
	504		TCCACCGGTCGCTTAAGATGCACTT	TAAGTGCATCTTAAGCGACCGGTGG

		The second secon	
[	505	TCGGCATAACGTCCAGTCCTGGGAC	TGTCCCAGGACTGGACGTTATGCCG
	506	TAAGCGGAACGGGTTATACCGAGGT	TACCTCGGTATAACCCGTTCCGCTT
	507	TTGCACACTAGGTCCGTCGCTTGAT	TATCAAGCGACGGACCTAGTGTGCA
1	508	TAGGGAACCGCGTTCAAACTCAGTT	TAACTGAGTTTGAACGCGGTTCCCT
5	509	TGAATTACAACCACCCGCTCGTGTT	TAACACGAGCGGGTGGTTGTAATTC
Ì	510	TTTCAGTGCTCACGAAGCATGGATT	TAATCCATGCTTCGTGAGCACTGAA
	511	TTTAGTTTGGCGTTGGGACTTCACC	TGGTGAAGTCCCAACGCCAAACTAA
	512	TAATGCGACCTCGACGAGCCTCATA	TTATGAGGCTCGTCGAGGTCGCATT
	513	TCCGAAACCGTTAACGTGGCGCACA	TTGTGCGCCACGTTAACGGTTTCGG
10	514	TTAAAGTAACAAGGCGACCTCCCGC	TGCGGGAGGTCGCCTTGTTACTTTA
	515	TTAATGATTTTAGTCGCGGGGTGGG	TCCCACCCGCGACTAAAATCATTA
	516	TGGCTACTCTAAGTGCCCGCTCAGG	TCCTGAGCGGGCACTTAGAGTAGCC
	517	TTGGCGGACGACTCAATATCTCACG	TCGTGAGATATTGAGTCGTCCGCCA
	518	TGGGCGTTAGGCGTAATAGACCGTC	TGACGGTCTATTACGCCTAACGCCC
15	519	TGCCACCTTTAGACGGCGGCTCTAG	TCTAGAGCCGCCGTCTAAAGGTGGC
	520	TGAGATGTGTAAACGTGCAGGCACC	TGGTGCCTGCACGTTTACACATCTC
	521	TTAGCTCGTGGCCCTCCAAGCGTGT	TACACGCTTGGAGGGCCACGAGCTA
	522	TGTGTCGGCGCTATTTGGCCTTACC	TGGTAAGGCCAAATAGCGCCGACAC
	523	TCCAGGGAAGCAACTGGTTGCCATT	TAATGGCAACCAGTTGCTTCCCTGG
20	524	TTTCCGAAACTAAGCCAGAACCGCT	TAGCGGTTCTGGCTTAGTTTCGGAA
	525	TGCAAACCCGGTAACCCGAGAGTTC	TGAACTCTCGGGTTACCGGGTTTGC
	526	TGCAAATGGCGTCATGCACGAACGT	TACGTTCGTGCATGACGCCATTTGC
	527	TAGTACTTTCGCGCCCAGTTTAGGG	TCCCTAAACTGGGCGCGAAAGTACT
	528	TAAGATCTGCGAGGCATCCCGGCTT	TAAGCCGGGATGCCTCGCAGATCTT
25	529	TGCAAGTGTATCGCACAGTGCGATT	TAATCGCACTGTGCGATACACTTGC
	530	TCCGACAAGGCCTCAATTCATTCTG	TCAGAATGAATTGAGGCCTTGTCGG
	531	TGTCTCGTCTCAACTTTAAGGCGCG	TCGCGCCTTAAAGTTGAGACGAGAC
	532	TATCCAGAGATCCGTTTTGCAGCGT	TACGCTGCAAAACGGATCTCTGGAT
	533	TGTCACCAGGAGGGAAGTTTCACCC	TGGGTGAAACTTCCCTCCTGGTGAC
30	534	TTTCCGTCAGGCGGATCAACGGAAT	TATTCCGTTGATCCGCCTGACGGAA
	535	TATGCCGGACACGCATTACACAGGC	TGCCTGTGTAATGCGTGTCCGGCAT
	536	TTGGGCCGCTTGGCGCTTTCATAGA	TTCTATGAAAGCGCCAAGCGGCCCA
	537	TCCTAGCGCGAGCTTTACTGACCAG	TCTGGTCAGTAAAGCTCGCGCTAGG
	538	TTTGGCCAGGAATATGGTCTCGAGA	TTCTCGAGACCATATTCCTGGCCAA
35	539	TGTCTGCGGCCGACTTGCTATGCAT	TATGCATAGCAAGTCGGCCGCAGAC
	540	TAACTTGCTCATTCTCAAGCCGACG	TCGTCGGCTTGAGAATGAGCAAGTT
	541	TACGTCAGCGATTGTGGCGAAATAT	TATATTTCGCCACAATCGCTGACGT
•	542	TACGGCCTGCGTCAGCACATGCATC	TGATGCATGTGCTGACGCAGGCCGT
	543	TATACCTCCGCAGAACCATTCCGTT	TAACGGAATGGTTCTGCGGAGGTAT
40	544	TAGTTCGCGGTCCCACGATTCACTT	TAAGTGAATCGTGGGACCGCGAACT
	545	TTGCTCAATTTGTGCAGAAAACGCC	TGGCGTTTTCTGCACAAATTGAGCA

Ţ.	546	TTTATCGCGAGAGACGACCGTGTCC	TGGACACGGTCGTCTCTCGCGATAA
	547	TGACGCGACGTGAGTAGTGGAAGCG	TCGCTTCCACTACTCACGTCGCGTC
ľ	548	TATGGTAGGGCATTGGGCTTTCCT	TAGGAAAGCCCAATGCCCCTACCAT
Ī	549	TCCAAATATAGCCGCGCGGAGACAT	TATGTCTCCGCGCGGCTATATTTGG
5	550	TGCAAACCCTGATTGAATCGTGCCC	TGGGCACGATTCAATCAGGGTTTGC
	551	TTAGCGTCTTGCGTGAAACCATGGG	TCCCATGGTTTCACGCAAGACGCTA
	552	TCCACCCGACAGCGCTGGACTCTT	TAAGAGTCCAGCGCTGTCGGGGTGG
	553	TACGAGCACTGAAGGCTGCTTTACG	TCGTAAAGCAGCCTTCAGTGCTCGT
	554	TCATATCAGCGTCGTCTAGCTCGCG	TCGCGAGCTAGACGACGCTGATATG
10	555	TTGATCCCGGACCGGCTAGACTAAT	TATTAGTCTAGCCGGTCCGGGATCA
	556	TGGCCCGACACTACAGGGTAATCA	TTGATTACCCTGTAGTGTCGGGGCC
	557	TGGCTCCAGGGCGAGATTATGAATG	TCATTCATAATCTCGCCCTGGAGCC
	558	TCAAAATCCGATGGGCGGAAAATTA	TTAATTTTCCGCCCATCGGATTTTG
	559	TCACAGGCGCATAGGGAGCAAGCTA	TTAGCTTGCTCCCTATGCGCCTGTG
15	560	TTAGCTATTGCCCCGATGGGCTACT	TAGTAGCCCATCGGGGCAATAGCTA
	561	TTGGTACGCGGTCCATAGCAAGTCG	TCGACTTGCTATGGACCGCGTACCA
	562	TGACGCTGTGGCTCGGAAACTGTTC	TGAACAGTTTCCGAGCCACAGCGTC
	563	TCCTGGGTTCGCCGCGTGGTAACTG	TCAGTTACCACGCGGCGAACCCAGG
	564	TTTCCCGCGTAGCCCAACAGCTATA	TTATAGCTGTTGGGCTACGCGGGAA
20	565	TTTCGCGGATTGCTGCCGCATAACA	TTGTTATGCGGCAGCAATCCGCGAA
	566	TAAAAATGGCACCGAAGTTGAGGCA	TTGCCTCAACTTCGGTGCCATTTTT
	567	TCATTCCGCGCGAGTTGAAATCCAG	TCTGGATTTCAACTCGCGCGGAATG
	568	TACGCACGTTTTTTGGCACGGTTAA	TTTAACCGTGCCAAAAAACGTGCGT
	569	TTGTCCATGACGTCGTTTCTCTGGT	TACCAGAGAAACGACGTCATGGACA
25	570	TTCTCAGTCGGACTCGTATGCCAGA	TTCTGGCATACGAGTCCGACTGAGA
	571	TCTCCAAACGCACACATCAAGCATC	TGATGCTTGATGTGTGCGTTTGGAG
	572	TTTCAACCAAGCGGGGTGTTCGTGA	TTCACGAACACCCCGCTTGGTTGAA
	573	TGGTGTCGGAGGGTGGTGACCTCGA	TTCGAGGTCACCACCCTCCGACACC
	574	TAGCGCTTTTGGTCATGATTTGCAA	TTTGCAAATCATGACCAAAAGCGCT
30	575	TCCGAGGACTTACGTCTGCCCAGGA	TTCCTGGGCAGACGTAAGTCCTCGG
	576	TGCCCAATCCAGTTCTTATGCGCCC	TGGGCGCATAAGAACTGGATTGGGC
	577	TCGGGTTAACCCACGCAAGTTATGA	TTCATAACTTGCGTGGGTTAACCCG
	578	TTGATTAGCGCTCAATACACGCGTG	TCACGCGTGTATTGAGCGCTAATCA
	579	TAAGGCAGACCTTTGGTTCGACTG	TCAGTCGAACCAAAGGTCTGCCCTT
<b>3</b> 5	580	TGCGCCACAAGATTCACATGTCATT	TAATGACATGTGAATCTTGTGGCGC
	581	TGCCATGTTCAAGGGCCTTTCGAAG	TCTTCGAAAGGCCCTTGAACATGGC
	582	TCGCGGTGTTTTGTCTAGGTGCCGG	TCCGGCACCTAGACAAAACACCGCG
	583	TCAACATTGTGGTGGCACTCCATCC	TGGATGGAGTGCCACCACAATGTTG
•	584	TCGATACGCGCCGGTTTGTTAAATC	TGATTTAACAAACCGGCGCGTATCG
40	585	TGGCTATAAACGTGCGGACTGCTCC	TGGAGCAGTCCGCACGTTTATAGCC
	586	TTGGGTAAATCACTATTGCGCGGTT	TAACCGCGCAATAGTGATTTACCCA

-**249-**

_			
	587	TGTCTTCATCGGCCCGCGCAAGCTA	TTAGCTTGCGCGGGCCGATGAAGAC
	588	TGCGACACCCTGTACTCTGATGC	TGCATCAGAGTACAGGGTGTGTCGC
	589	TGTAGCAGGGTCCGCAAGACCAAGC	TGCTTGGTCTTGCGGACCCTGCTAC
	590	TTCGCCAACGCAGGGTAACTGCCAT	TATGGCAGTTACCCTGCGTTGGCGA
5	591	TACTCCGAAGCTTCGAGCGGCACGA	TTCGTGCCGCTCGAAGCTTCGGAGT
	12	TCATCGTCCCTTTCGATGGGATCAA	TTTGATCCCATCGAAAGGGACGATG
	13	TGCACGGGAGCTGACGACGTGTCAA	TTTGACACGTCGTCAGCTCCCGTGC
	594	TATCATCCCACGGCAGAGTGAAGAG	TCTCTTCACTCTGCCGTGGGATGAT
	595	TCGCTGGACTGGCCTATCCGAGTCG	TCGACTCGGATAGGCCAGTCCAGCG
10	596	TCGGTCTCAGCAACACTGTCGCAAA	TTTTGCGACAGTGTTGCTGAGACCG
	597	TCGAACGTTCTCCGATGTAATGGCC	TGGCCATTACATCGGAGAACGTTCG
	598	TATACCGTGCGACAAGCCCCTCTGA	TTCAGAGGGGCTTGTCGCACGGTAT
	599	TAGCTCATTCCCGAGACGGAACACC	TGGTGTTCCGTCTCGGGAATGAGCT
	600	TTTTCATGCGGCCGTTGCAAATCAT	TATGATTTGCAACGGCCGCATGAAA
15	601	TACTCGAACGGACGTTCAATTCCCA	TTGGGAATTGAACGTCCGTTCGAGT
	602	TCTGCATGGTGTGGGTGAGACTCCC	TGGGAGTCTCACCCACACCATGCAG
	603	TCCGCGAGTGTGGATGGCGTGTTGA	TTCAACACGCCATCCACACTCGCGG
	604	TAATGTGTCGGTCCTAAGCCGGGTG	TCACCCGGCTTAGGACCGACACATT
	605	TTAAGACGAGCCTGCACAGCTTGCG	TCGCAAGCTGTGCAGGCTCGTCTTA
20	606	TGGCGTGGGAGGATAAGACGATGTC	TGACATCGTCTTATCCTCCCACGCC
	607	TTGCTCCATGTTAGGAACGCACCAC	TGTGGTGCGTTCCTAACATGGAGCA
	608	TCGGTGTTGGTCGGACTGACGACTG	TCAGTCGTCAGTCCGACCAACACCG
	609	TCCGCGCGTATCTATCAGATCTGGG	TCCCAGATCTGATAGATACGCGCGG
	610	TAAAGCATGCTCCACCTGGAGCGAG	TCTCGCTCCAGGTGGAGCATGCTTT
25	611	TACTTGCATCGCTGGGTAGATCCGG	TCCGGATCTACCCAGCGATGCAAGT
	612	TTGCTTACGCAGTGGATTGGTCAGA	TTCTGACCAATCCACTGCGTAAGCA
	613	TATGCAGATGAACAAATCGCCGAAT	TATTCGGCGATTTGTTCATCTGCAT
	614	TGCAATTCTGGGCCATGTATTCGTC	TGACGAATACATGGCCCAGAATTGC
	615	TAGGGTTCCTTACGCGTCGACATGG	TCCATGTCGACGCGTAAGGAACCCT
30	616	TGTGGAGCTAATCGCGAGCCTCAGA	TTCTGAGGCTCGCGATTAGCTCCAC
	617	TTCGTAGTCTCACCGGCAATGATCC	TGGATCATTGCCGGTGAGACTACGA
	618	TTTATAGCAGTGCGCCAATGCTTCG	TCGAAGCATTGGCGCACTGCTATAA
	619	TCGAACAGTGCTGTCCGTCGCTCAA	TTTGAGCGACGGACAGCACTGTTCG
	620	TTCCGCGTGGACTGTTAGACGCTAT	TATAGCGTCTAACAGTCCACGCGGA
35	621	TCATTAGCCCGCTGTCGGTAACTGT	TACAGTTACCGACAGCGGGCTAATG
	622	TGGAAAGAAACTCAGACGCGCAATG	TÇATTGCGCGTÇTGAGTTTCTTTCC
•	623	TCGACTCGCTGGACAGGAGAATCGT	TACGATTCTCCTGTCCAGCGAGTCG
	624	TCATGATCCTCTGTTTCACCCGCGG	TCCGCGGGTGAAACAGAGGATCATG
	625	TGGCGTAGCGCTCTAAAAGCTTCGG	TCCGAAGCTTTTAGAGCGCTACGCC
40	626	TAGTGATGCCATCAGGCCCGTATAC	TGTATACGGGCCTGATGGCATCACT
	627	TTATGGAAAGGGCAACAGCGCTATC	TGATAGCGCTGTTGCCCTTTCCATA
	<del></del>		

	628	TCTGTGGTTGATGGAGGATCCACAC	TGTGTGGATCCTCCATCAACCACAG
	629	TACTCGCTGGAATTTGCGCTGACAC	TGTGTCAGCGCAAATTCCAGCGAGT
Ì	630	TCAGGCCCGAACCACGCGGTTACAG	TCTGTAACCGCGTGGTTCGGGCCTG
j	631	TGGCGCAATGGGCGCATAAATACTA	TTAGTATTTATGCGCCCATTGCGCC
5	632	TGGTCAATTCGCGCTACATGCCCTA	TTAGGGCATGTAGCGCGAATTGACC
	633	TGATGGTGGACTGGAGCCCTTCCGC	TGCGGAAGGGCTCCAGTCCACCATC
	634	TCCGCGCATAGCGCAATAGGGGAGA	TTCTCCCCTATTGCGCTATGCGCGG
	635	TTCTTCTGGCTGTCCGGCACCCGAA	TTTCGGGTGCCGGACAGCCAGAAGA
	636	TGCGTTCGCAATTCACGGGCCCTTA	TTAAGGGCCCGTGAATTGCGAACGC
10	637-	TTCGTTTCGGCCTTGGAGAGTATCG	TCGATACTCTCCAAGGCCGAAACGA
	638	TAGGTGCAAGTGCAAGGCGAGAGGC	TGCCTCTCGCCTTGCACTTGCACCT
	639	TCGCCAGTTTCGATGGCTGACGTTT	TAAACGTCAGCCATCGAAACTGGCG
	640	TGCTTTACCGCCGATCCCAGATATC	TGATATCTGGGATCGGCGGTAAAGC
	641	TGTGCTTGACGAAGAGGCGAAATGT	TACATTTCGCCTCTTCGTCAAGCAC
15	642	TCAGTCCGTGCGCTTCATGTCCTCA	TTGAGGACATGAAGCGCACGGACTG
	643	TTACGCGTAAGAGCCTACCCTCGCG	TCGCGAGGGTAGGCTCTTACGCGTA
	644	TGGCGAGTCTTGTGGGGACATGTGT	TACACATGTCCCCACAAGACTCGCC
	645	TCCAAAGCGAAGCGAGCGTGTCTAT	TATAGACACGCTCGCTTCGCTTTGG
	646	TGCCGTAGGTTGCTCTTCACCGAAC	TGTTCGGTGAAGAGCAACCTACGGC
20	647	TAAATCCGCGATGTGCCGTGAGGCT	TAGCCTCACGGCACATCGCGGATTT
	648	TGGCTTCGCACCCGTACCAATTTAG	TCTAAATTGGTACGGGTGCGAAGCC
	649	TTGTAGAGTCCCACGTAGCCGGCAT	TATGCCGGCTACGTGGGACTCTACA
	650	TCACTAGTCTGGGGCAAGGTGCATT	TAATGCACCTTGCCCCAGACTAGTG
	651	TTGTACTCGGCAGGCGCAATAGATT	TAATCTATTGCGCCTGCCGAGTACA
25	652	TAACGGGTATCGGAAGCGTAAAAGC	TGCTTTTACGCTTCCGATACCCGTT
	653	TCGGACTGCCCGTTTGCAAGTTGAG	TCTCAACTTGCAAACGGGCAGTCCG
	654	TATCGTTCAGCACTGGAGCCCGTAA	TTTACGGGCTCCAGTGCTGAACGAT
	655	TATGCATCGAACTAGTCGTGACGGC	TGCCGTCACGACTAGTTCGATGCAT
	656	TTTCCAGGCATTAAGGAGAGGGAGC	TGCTCCCTCTCCTTAATGCCTGGAA
30	657	TGTGCGACATCTACTCCACGATCCC	TGGGATCGTGGAGTAGATGTCGCAC
	658	TCTCATCGTCCTAACACGAGAGCCC	TGGGCTCTCGTGTTAGGACGATGAG
	659	TAATGGCACTTCGGCGGTGATGCAA	TTTGCATCACCGCCGAAGTGCCATT
	660	TCCGTGGGAGGGAATCCAACCGAGG	TCCTCGGTTGGATTCCCTCCCACGG
	661	TAAATTCTCGTTGGTGACGGCTCAT	TATGAGCCGTCACCAACGAGAATTT
35	662	TTTGCTCTTATCCTTGTCCTGGGCG	TCGCCCAGGACAAGGATAAGAGCAA
	<b>6</b> 63	TTTAAGGATCAGGCGGAGCTTGCAG	TCTGCAAGCTCCGCCTGATCCTTAA
	664	TCGCGACTAAGGTGCTGCAACTCGA	TTCGAGTTGCAGCACCTTAGTCGCG
	<b>6</b> 65	TGCTCGATTTCACGGCCCGTTGTTC	TGAACAACGGGCCGTGAAATCGAGC
	666	TAGCAGAGTGCGTTGCAGAGGCTAA	TTTAGCCTCTGCAACGCACTCTGCT
40	667	TTGGAGGTGAGGACGACGTGCACTA	TTAGTGCACGTCGTCCTCACCTCCA
	668	TAACCGTTTAGGGTACATTCGCGGT	TACCGCGAATGTACCCTAAACGGTT

	_		
ſ	669	TTATGATCGCTCGGCTCACAGTTTG	TCAAACTGTGAGCCGAGCGATCATA
	670	TGACTTTTTGCGGAAACGTCATGGT	TACCATGACGTTTCCGCAAAAAGTC
	671	TTGTCGGTTATTCCACCTGCAAGGA	TTCCTTGCAGGTGGAATAACCGACA
	672	TCTATGGTTTGCACTGCGCCGTCGA	TTCGACGGCGCAGTGCAAACCATAG
5	673	TAGCAGGGAAATTCAATCGTTCGCA	TTGCGAACGATTGAATTTCCCTGCT
	674	TCCTAACCGAGCGCTTAGCATTTCC	TGGAAATGCTAAGCGCTCGGTTAGG
	675	TCCCGACCCTAACTCGCATTGAATA	TTATTCAATGCGAGTTAGGGTCGGG
	676	TTTGCTTAATGGTGACGCCACGGAT	TATCCGTGGCGTCACCATTAAGCAA
	677	TGATGCTCGCCGTGTTTAGTTCACG	TCGTGAACTAAACACGGCGAGCATC
10	678	TTCGGATGACGAGTTTCCATGACGG	TCCGTCATGGAAACTCGTCATCCGA
	679	TATGCGGTCTACTTTCTCGATCGGG	TCCCGATCGAGAAAGTAGACCGCAT
	680	TTTGCGAGGCTAAGCACACGGTAAA	TTTTACCGTGTGCTTAGCCTCGCAA
	681	TAACTTAATTACCGCCTCTGGCGCC	TGGCGCCAGAGGCGGTAATTAAGTT
	682	TGTGACCGCGAACTTGTTCCGACAG	TCTGTCGGAACAAGTTCGCGGTCAC
15	683	TTGCGGATTACCGATTCGCTCTTAA	TTTAAGAGCGAATCGGTAATCCGCA
	684	TTGATAGGGGGCCACGTTGATCAGA	TTCTGATCAACGTGGCCCCCTATCA
	685	TTCGCTCCGTAGCGATTCATCGTAG	TCTACGATGAATCGCTACGGAGCGA
	686	TTGTCAGCTGGTAGCCTCCGTTTGA	TTCAAACGGAGGCTACCAGCTGACA
	687	TAGCGTCGCATGACGCTTACGGCAC	TGTGCCGTAAGCGTCATGCGACGCT
20	14	TAGACGCACCGCAACAGGCTGTCAA	TTTGACAGCCTGTTGCGGTGCGTCT
	15	TCGTGTAGGGGTCCCGTGCTGTCAA	TTTGACAGCACGGGACCCCTACACG
	690	TGTCGCATTCTGCACTGGCTTCGCC	TGGCGAAGCCAGTGCAGAATGCGAC
	691	TTGATTAGGTGCGGTCCCGTAGTCC	TGGACTACGGGACCGCACCTAATCA
	692	TAAGGGACCTTGGGTGACGCGAGA	TTCTCGCCGTCACCCAAGGTCCCTT
25	693	TTCAAATGGCCACCGCGTGTCATTC	TGAATGACACGCGGTGGCCATTTGA
	694	TCTCCGACGACCAATAAATAGCCGC	TGCGGCTATTTATTGGTCGTCGGAG
	695	TGGCTATTCCCGTAGAGAGCGTCCA	TTGGACGCTCTCTACGGGAATAGCC
	696	TTGGATAACCTCTCGGTCCATCCAC	TGTGGATGGACCGAGAGGTTATCCA
	697	TGACCGCTGTACGGGAGTGTGCCTT	TAAGGCACACTCCCGTACAGCGGTC
30	698	TGCCACAGAGTTTTAGCAGGGACCC	TGGGTCCCTGCTAAAACTCTGTGGC
	699	TCCCACGCTTTCCGACCACTGACCT	TAGGTCAGTGGTCGGAAAGCGTGGG
	700	TCATTGACACAATGCGGGGACTGAT	TATCAGTCCCCGCATTGTGTCAATG
	701	TAGCCACTCGACAGGGTTCCAAAGC	TGCTTTGGAACCCTGTCGAGTGGCT
	702	TCAGGATGAGCAAAGCGACTCTCCA	TTGGAGAGTCGCTTTGCTCATCCTG
35	703	TCAAGGTATGGTCTGGGGCCTAAGC	TGCTTAGGCCCCAGACCATACCTTG
	704	TGGTGTTCGGCCTAAACTCTTTCGG	TCCGAAAGAGTTTAGGCCGAACACC
	705	TTTTAGTCGGACCCTGTGGCAATTC	TGAATTGCCACAGGGTCCGACTAAA
	706	TCACACGTTTCCGACCAGCCTGAAC	TGTTCAGGCTGGTCGGAAACGTGTG
	707	TCTGGACGAACTGGCTTCCTCGTAC	TGTACGAGGAAGCCAGTTCGTCCAG
40	708	TTTCACAATCCGCCGAAAACTGACC	TGGTCAGTTTTCGGCGGATTGTGAA
	709	TAACAGGATATCCGCGATCACGACA	TTGTCGTGATCGCGGATATCCTGTT

PCT/US01/26519

ĺ	710	TTACGTCGGATCCATTGCGCCGAGT	TACTCGGCGCAATGGATCCGACGTA
	711	TCATGGATCTCTCGGTTTGATCGCC	TGGCGATCAAACCGAGAGATCCATG
	712	TAGCCAGGCGCGTATATACGCTCGG	TCCGAGCGTATATACGCGCCTGGCT
	713	TATTTGGCACGTGTCGTGCCATGTT	TAACATGGCACGACACGTGCCAAAT
5	714	TCCGCGTTGCACCACTTTGAGGTGC	TGCACCTCAAAGTGGTGCAACGCGG
	715	TTTGGACGTGACAAGCATGGCGCTC	TGAGCGCCATGCTTGTCACGTCCAA
	716	TCTGAATCGCGCAAGTAAATGGGGG	TCCCCATTTACTTGCGCGATTCAG
	717	TGATAAGGTCCACCAGATTGCGCGC	TGCGCGCAATCTGGTGGACCTTATC
	718	TCTAACAATTGCCAACCGGGACGGC	TGCCGTCCCGGTTGGCAATTGTTAG
10	719	TGGTAACCTGGGTGCTTGCAGGTTA	TTAACCTGCAAGCACCCAGGTTACC
	720	TATCGGAGCCACCATTCGCATTGGG	TCCCAATGCGAATGGTGGCTCCGAT
	721	TGTGAACTGGCTTGCCCCAGGATTA	TTAATCCTGGGGCAAGCCAGTTCAC
	722	TAGGCGATAGCATGGTCCCATATGA	TTCATATGGGACCATGCTATCGCCT
	723	TAACGGTATCGTGGCTAATGCACGA	TTCGTGCATTAGCCACGATACCGTT
15	724	TAGTAGTGGTCCTCCAGATCGGCAA	TTTGCCGATCTGGAGGACCACTACT
	725	TCCGTTGAATTGGACGGGAGGTTAG	TCTAACCTCCCGTCCAATTCAACGG
	726	TGCATAAGTGCGGCATCGCGAAGGG	TCCCTTCGCGATGCCGCACTTATGC
	727	TCGACAAGATGCAGCTGCTACATGC	TGCATGTAGCAGCTGCATCTTGTCG
	728	TTCGCAGTGATTCCCGACCGATAAG	TCTTATCGGTCGGGAATCACTGCGA
20	729	TCAAGGCGAGTCCACTCGAGGGGAC	TGTCCCCTCGAGTGGACTCGCCTTG
	730	TGCAACTTGCACGGCATAAGTGGCC	TGGCCACTTATGCCGTGCAAGTTGC
	731	TTCCGAGCTTGACGTTCGCGACGTC	TGACGTCGCGAACGTCAAGCTCGGA
	732	TAGCGCTGGGCTGTGCCATCTC	TGAGATGGCAGCACAGCCCAGCGCT
	733	TTTCATGTCGCTGAGTAACCCTCGC	TGCGAGGGTTACTCAGCGACATGAA
25	734	TCGAACCGCTAATGCCCATTGTCAG	TCTGACAATGGGCATTAGCGGTTCG
	735	TCACGGAAGGTGGGACAAATCGCCG	TCGGCGATTTGTCCCACCTTCCGTG
	736	TCACAGATGGAGACAAACGCGCCTT	TAAGGCGCGTTTGTCTCCATCTGTG
	737	TTTTCGCAACTCGCTCCATAACCC	TGGGTTATGGAGCGAGTTGCGAAAA
	738	TACGTTACGTTTCCGGCGCCTCTAA	TTTAGAGGCGCCGGAAACGTAACGT
30	. 739	TTATCGGATTGCGTGGGTTTCAATC	TGATTGAAACCCACGCAATCCGATA
	740	TCTTCCACAATTGTCTGCGACGCAC	TGTGCGTCGCAGACAATTGTGGAAG
	741	TTGCACAAAGGTATGGCTGTCCGGC	TGCCGGACAGCCATACCTTTGTGCA
	742	TTCCGATGCCAGTCCCATCTTAAGA	TTCTTAAGATGGGACTGGCATCGGA
	743	TCTGAAACCGTGCGAATCGAGGTGA	TTCACCTCGATTCGCACGGTTTCAG
35	744	TCGGTGTTCCGCGTGTCGAAAAAAT	TATTTTTCGACACGCGGAACACCG
	745	TTCTAGCAGGCCTTTTGAATCGCCA	TTGGCGATTCAAAAGGCCTGCTAGA
	746	TGAGTCACCTCTGAGACGGACGCCA	TTGGCGTCCGTCTCAGAGGTGACTC
	747	TTCTTCTGTCATCCTGCAGCAGCAT	TATGCTGCTGCAGGATGACAGAAGA
	748	TGCGGATGAAACCTGAAAGGGGCCT	TAGGCCCCTTTCAGGTTTCATCCGC
40	749	TGGGGCCCCAAACTGGTATCAAGCC	TGGCTTGATACCAGTTTGGGGCCCC
	750	TGCATTGGCTTCGGATTCTCCTACA	TTGTAGGAGAATCCGAAGCCAATGC

WO 02/16649

	751	TAGGCGGCCCAACTGTGAGGTCTTG	TCAAGACCTCACAGTTGGGCCGCCT
		TAGGCGGCCCAACTGTGAGGTGTTG	TCAAGACCTCACAGTTGGGGCGCCT
	752	TACACCATGTGCTCCGCGCTGCAGT	TACTGCAGCGCGGAGCACATGGTGT
	753	TACGATGAACATGAATCGGGAGTCG	TCGACTCCCGATTCATGTTCATCGT
	754	TCTGCATCCCTGTAGCAGCGCTCCG	TCGGAGCGCTGCTACAGGGATGCAG
5	755	TGTGCCGTATTTCGACCTGTGCGTT	TAACGCACAGGTCGAAATACGGCAC
	756	TGCAGTGCGCACTTCAGTTCAAAAG	TCTTTTGAACTGAAGTĞCGCACTGC
	757	TGCGATTTTAAGCGATGCCTTGACG	TCGTCAAGGCATCGCTTAAAATCGC
	758	TTAGGTGACCTAGGCTTGCTTGCGG	TCCGCAAGCAAGCCTAGGTCACCTA
	759	TCTGGATACCTTGCCTGTGCGGCGC	TGCGCCGCACAGGCAAGGTATCCAG
10	760	TCCCCTTACGGCTCGTCGTCTATGC	TGCATAGACGACGAGCCGTAAGGGG
	761	TGCGCTTGCCCGATGCGATGCATTA	TTAATGCATCGCATCGGGCAAGCGC
	762	TTTTCTGTAAGCGGCCTGGGGTTCA	TTGAACCCCAGGCCGCTTACAGAAA
	763	TGGCTGAGGTGAGCGGTAAGGATGA	TTCATCCTTACCGCTCACCTCAGCC
	764	TTCTTGGCCTCCCCGATCTAATTTG	TCAAATTAGATCGGGGAGGCCAAGA
15	765	TGGAGGTAACGCCGTGTACGTAGGA	TTCCTACGTACACGGCGTTACCTCC
	766	TGTAATCCATTTGTGGCTGCGTCAA	TTTGACGCAGCCACAAATGGATTAC
	767	TCAAACCCATTCCAGCAGACGCCTG	TCAGGCGTCTGCTGGAATGGGTTTG
	768	TTAGGAGGAATTTGGCATGCGGCG	TCGCCCGCATGCCAAATTCCTCCTA
Γ	769	TATAGGTAGGATGTGCCCGGCGTTG	TCAACGCCGGGCACATCCTACCTAT
20	770	TGCAAGTGCTTAGCTCGTCAGCCTC	TGAGGCTGACGAGCTAAGCACTTGC
Ī	771	TCTGGCTGTGTCGCATCTCGTTAAC	TGTTAACGAGATGCGACACAGCCAG
	772	TCTAACGTCGTCTCGCGCAATCACT	TAGTGATTGCGCGAGACGACGTTAG
	773	TTTTTCATAAACGTTGTCCCCGAGC	TGCTCGGGGACAACGTTTATGAAAA
	774	TAGCAGGAGGACGAACCTCCGCTCC	TGGAGCGGAGGTTCGTCCTCCTGCT
25	775	TTTCAAGCACCATCGTGCAATCCAA	TTTGGATTGCACGATGGTGCTTGAA
	776	TAGCGTCGCCAGTGATCGCTAGTGG	TCCACTAGCGATCACTGGCGACGCT
	777	TTACATTCCCTGCCTCCGTGGGCTT	TAAGCCCACGGAGGCAGGGAATGTA
	778	TCGCTTCGCGTATTCAGTAGCGGTT	TAACCGCTACTGAATACGCGAAGCG
	779	TTCGGACGCGTCGACACTCATTATA	TTATAATGAGTGTCGACGCGTCCGA
30	780	TTCTGAGCAGGCCAGCGCTCCAGCT	TAGCTGGAGCGCTGGCCTCAGA
	781	TTTGAATTGCCAAGCCCTGAAAGCC	TGGCTTTCAGGGCTTGGCAATTCAA
	782	TAGTTTTCGCCTTGATGCGTCGGTG	TCACCGACGCATCAAGGCGAAAACT
	783	TGTTTCATAGGCCACGCGTGCTAAA	TTTTAGCACGCGTGGCCTATGAAAC
	16	TCATCGCTGCAAGTACCGCACTCAA	TTTGAGTGCGGTACTTGCAGCGATG

-254-

#### **CLAIMS**

We claim:

5

- An oligonucleotide array comprising an array of at least 25 different addresses, each address
  comprising a different capture probe selected from the group consisting of the sequences set forth
  in Table 1, Table 3 and Table 4.
- 10 2. An array according to claim 1, wherein said capture probes are microspheres.
  - 3. An array according to claim 1 or 2 wherein said array is a liquid array.
  - An array according to claim 1, 2 or 3, wherein said array further comprises a solid support.

15

- 5. An array according to claim 1, 2, 3 or 4, wherein said addresses are microspheres and wherein said solid support comprises wells into which said microspheres are individually distributed.
- 6. An array according to claim 1, 2, 3 or 4, wherein each address is a different known location, and said wherein each capture probe is attached to one of said known locations.
  - 7. An array according to claim 1, 2, 3, 4, 5 or 6, wherein said array comprises at least 50 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

25

8. An array according to claim 1,2, 3, 4, 5 or 6 wherein said array comprises at least 100 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

30

9. A kit comprising at least twenty-five nucleic acids selected from the group consisting of sequences substantially complementary to the sequences set forth in Table I, Table II, Table III and Table IV or their complement.

35

10. A kit according to claim 9, wherein said kit comprises at least 50 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table I, Table II, Table III and Table IV or their complement.

11. A kit according to claim 9 or 10, wherein said kit comprises at least 100 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table I, Table II, Table III and Table IV or their complement.

- 5 12. A kit according to claim 9, 10 or 11, wherein said nucleic acids further comprise at least a first universal priming sequence.
  - 13. A kit according to claim 9, 10, 11 or 12, wherein said nucleic acid sequence further comprises a sequence substantially complementary to a target domain.

10

- 14. A method of immobilizing a target nucleic acid sequence, said method comprising:
  - a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table I, Table III, Table III, and Table IV;
  - b) contacting said modified first target nucleic acid sequence with an array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4, whereby said target nucleic acid sequence is immobilized.

20

25

15

- 15. A method of detecting a target nucleic acid sequence, said method comprising:
  - a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table I, Table III, and Table IV;
  - b) contacting said modified first target nucleic acid sequence with an array comprising: an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4: and
  - c) detecting the presence of said modified first target nucleic acid sequence.

30

35

16. A method of detecting a target nucleic acid, said method comprising:

comprising a first domain that is complementary to said first target nucleic acid and a second domain, said second domain comprising a first sequence substantially complementary to a selected from the group consisting of the sequences set forth in

a) hybridizing a first adapter probe with a first target nucleic acid, said first adapter probe

Table I, Table II, Table III and Table IV to form a first hybridization complex;

b) contacting said first hybridization complex with an enzyme such that when said first domain
of said adapter probe is perfectly complementary with said first target nucleic acid, said
first adapter probe is altered resulting in a modified first adapter probe;

- c) contacting said modified first adapter probe with a population of microspheres comprising
  at least a first subpopulation comprising a first capture probe, such that said first capture
  probe and said modified first adapter probe form a second hybridization complex; and
- d) detecting the presence of said modified first adapter probe as an indication of the presence of said target nucleic acid.

5

#### 1/3

### Description of algorithm to select "best" oligonucleotide adapter s quences.

Requirements for good sequences:

- Generates adequate hybridization signal intensity when employed in an experiment.
- Exhibits minimal cross-reactivity with other adapter sequences.
- Unique within the human genome sequence. This requirement can be extended to the genomic sequence of other organisms such as the fruit fly, the mouse, etc.

One method of generating sequences that meet the above requirements is to randomly generate sequences of given lengths and then pass these filters through a set of heuristic acceptance filters. In particular, the 24-mer Illumina Adapter sequences (IllumaCodes) were chosen as follows.

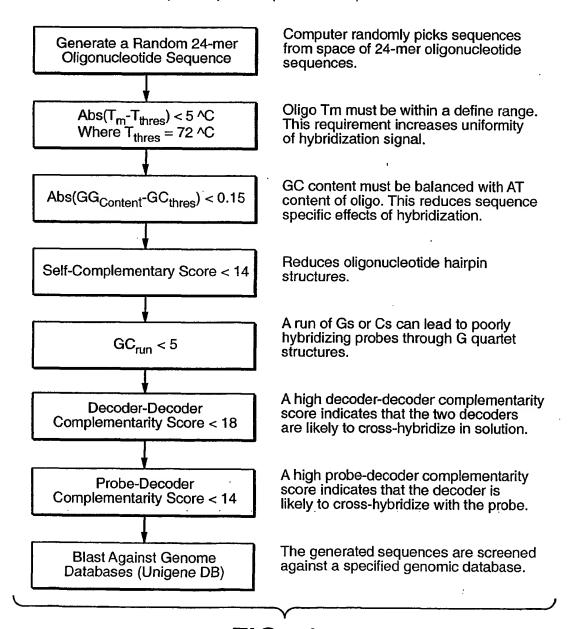


FIG.\_1

2/3

# Flow diagram for selection of probes sequences

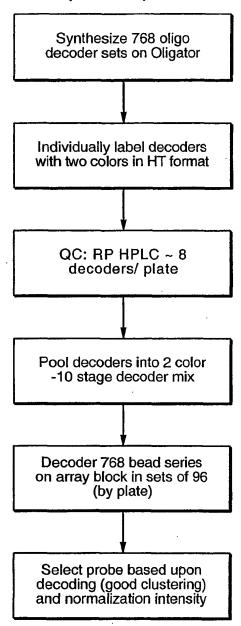


FIG.\_2

